

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030947.D
 Acq On : 09 Apr 2019 10:30
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Quant Time: Apr 10 01:19:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 10 01:14:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	259365	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	261604	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	123234	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	79980	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.68	69	71250	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.20%
11) 1,1-Dichloroethene-d2	2.27	63	184950	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.20%
20) 2-Butanone-d5	4.19	46	249549	48.86	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.72%
24) Chloroform-d	4.64	84	143832	4.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.60%
26) 1,2-Dichloroethane-d4	5.31	65	82734	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.33	84	286644	4.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.40%
36) 1,2-Dichloropropane-d6	6.33	67	96519	4.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.60%
41) Toluene-d8	7.56	98	252861	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.20%
43) trans-1,3-Dichloropropene-	7.85	79	35717	4.16	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.20%
46) 2-Hexanone-d5	8.31	63	175887	47.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.28%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	81267	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	86182	4.18	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	144397	4.997 ug/L	98
3) Chloromethane	1.32	50	158365	4.676 ug/L	98
5) Vinyl chloride	1.40	62	157389	5.071 ug/L	100
6) Bromomethane	1.62	94	78650	5.180 ug/L	100
8) Chloroethane	1.69	64	91267	5.170 ug/L	100
9) Trichlorofluoromethane	1.88	101	196704	5.592 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	103336	5.282 ug/L	99
12) 1,1-Dichloroethene	2.28	96	98698	5.215 ug/L	88
13) Acetone	2.32	43	239896	60.756 ug/L	98
14) Carbon disulfide	2.47	76	337183	5.080 ug/L	98
15) Methyl Acetate	2.61	43	63338	6.209 ug/L	100
16) Methylene chloride	2.69	84	116286	5.271 ug/L	98
17) Methyl tert-butyl Ether	3.00	73	282074	5.568 ug/L	99
18) trans-1,2-Dichloroethene	2.97	96	106575	5.334 ug/L	95
19) 1,1-Dichloroethane	3.43	63	205901	4.872 ug/L	98
21) 2-Butanone	4.27	43	333975	53.369 ug/L	95
22) cis-1,2-Dichloroethene	4.22	96	104969	4.927 ug/L	100

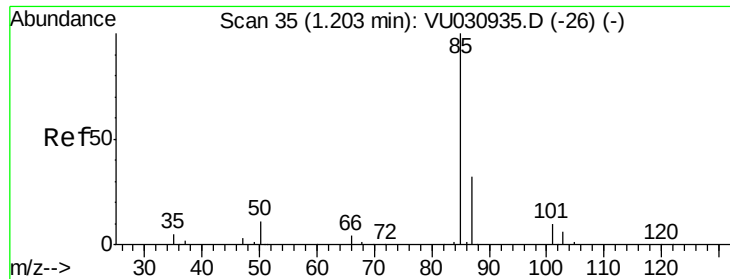
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030947.D
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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	46883	5.508	ug/L	94
25) Chloroform	4.67	83	208405	5.409	ug/L	100
27) 1,2-Dichloroethane	5.40	62	130753	5.230	ug/L	97
29) 1,1,1-Trichloroethane	4.91	97	166492	4.996	ug/L	99
30) Cyclohexane	4.98	56	161738	4.020	ug/L	95
31) Carbon tetrachloride	5.13	117	142412	5.090	ug/L	95
33) Benzene	5.38	78	418271	4.726	ug/L	100
34) Trichloroethene	6.18	95	104539	4.719	ug/L	97
35) Methylcyclohexane	6.41	83	152815	4.322	ug/L	99
37) 1,2-Dichloropropane	6.43	63	116586	4.787	ug/L	99
38) Bromodichloromethane	6.76	83	136927	4.815	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	143662	4.411	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	764566	50.326	ug/L	99
42) Toluene	7.63	91	431803	4.865	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	120963	4.798	ug/L	94
45) 1,1,2-Trichloroethane	8.06	97	75563	5.203	ug/L	97
47) Tetrachloroethene	8.22	164	77650	4.997	ug/L	97
48) 2-Hexanone	8.36	43	558762	53.081	ug/L	100
49) Dibromochloromethane	8.47	129	92238	5.312	ug/L	99
50) 1,2-Dibromoethane	8.58	107	70823	5.232	ug/L	98
51) Chlorobenzene	9.12	112	257434	4.704	ug/L	98
52) Ethylbenzene	9.25	91	437092	4.618	ug/L	97
53) m,p-Xylene	9.37	106	155470	4.702	ug/L	95
54) o-Xylene	9.77	106	154836	4.775	ug/L	94
55) Styrene	9.79	104	271698	4.967	ug/L	98
56) Isopropylbenzene	10.16	105	413374	4.772	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	100698	5.216	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	72707	5.343	ug/L	100
61) Bromoform	9.95	173	49479	5.302	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	179697	4.621	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	182466	4.476	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	174383	4.609	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.65	75	15315	5.231	ug/L	92
67) 1,3,5-Trichlorobenzene	12.88	180	135644	4.675	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	101040	4.509	ug/L	96
69) Naphthalene	13.74	128	154513	4.294	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	105390	5.047	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2

Dichlorodifluoromethane

Concen: 4.997 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

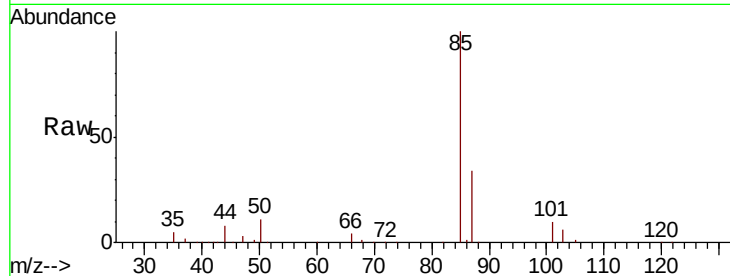
VSTD00513

Tot Ion: 85 Resp: 144397

Ion Ratio Lower Upper

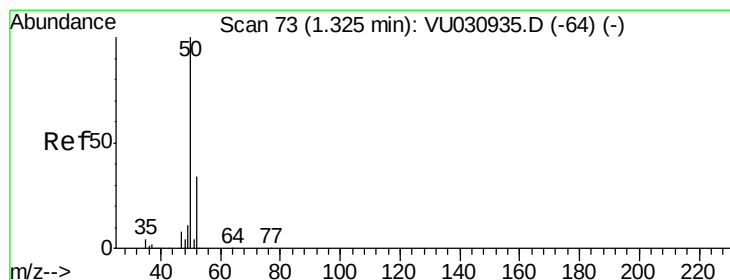
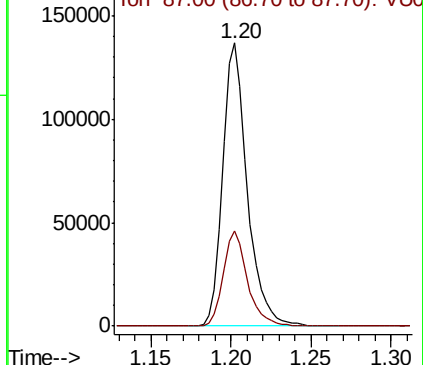
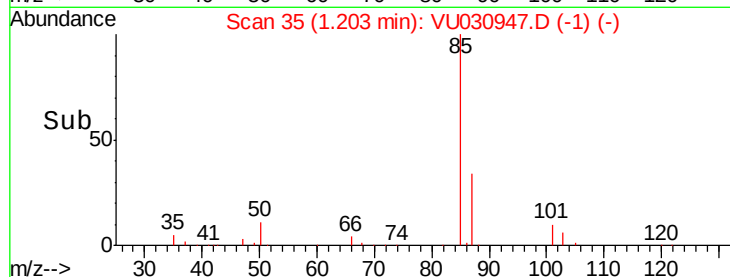
85 100

87 33.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU030947.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU030947.D (-1) (-)



#3

Chloromethane

Concen: 4.676 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU030947.D

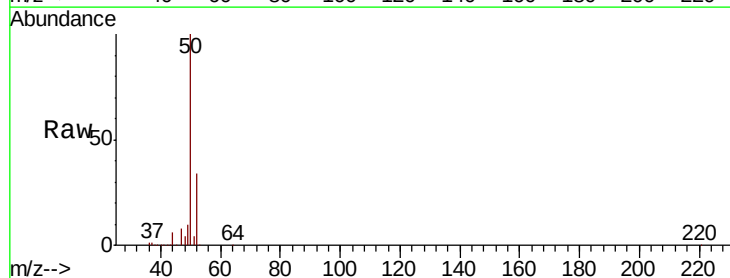
Acq: 09 Apr 2019 10:30

Tgt Ion: 50 Resp: 158365

Ion Ratio Lower Upper

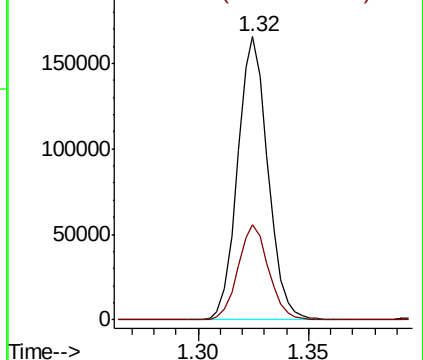
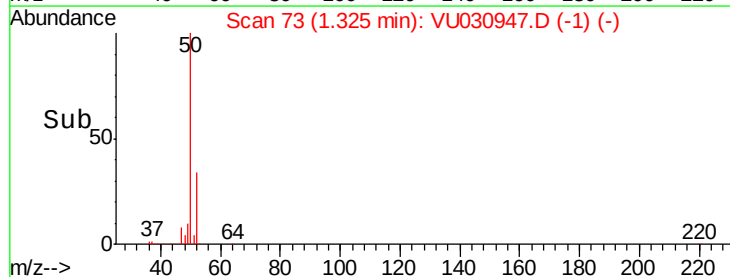
50 100

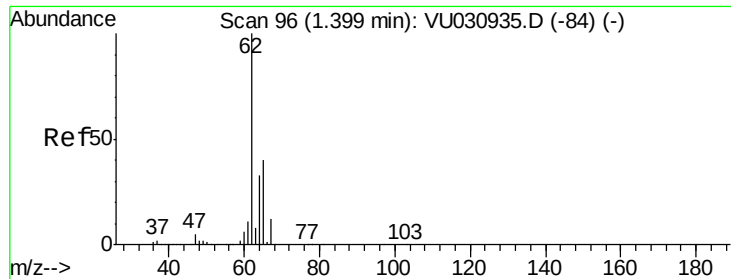
52 33.6 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU030947.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU030947.D (-1) (-)





#5

Vinyl chloride

Concen: 5.071 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

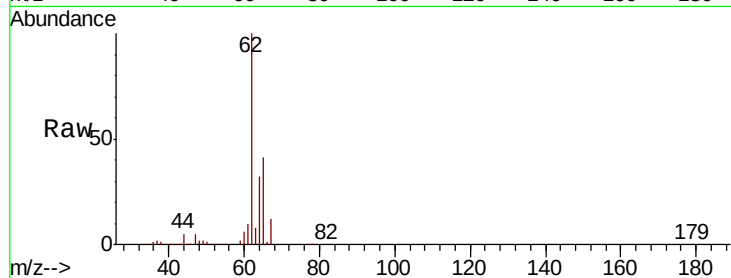
VSTD00513

Tot Ion: 62 Resp: 157389

Ion Ratio Lower Upper

62 100

64 32.4 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU030947.D (-4) (-)

Ion 64.10 (63.80 to 64.80): VU030947.D (-4) (-)

1.40

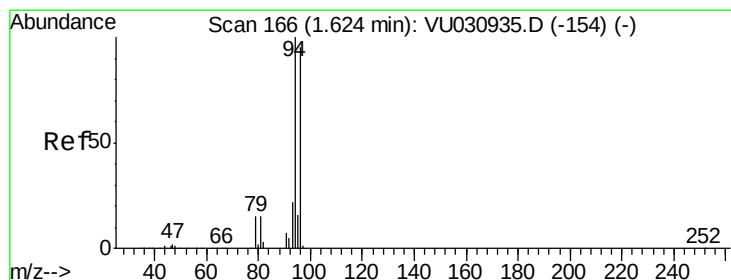
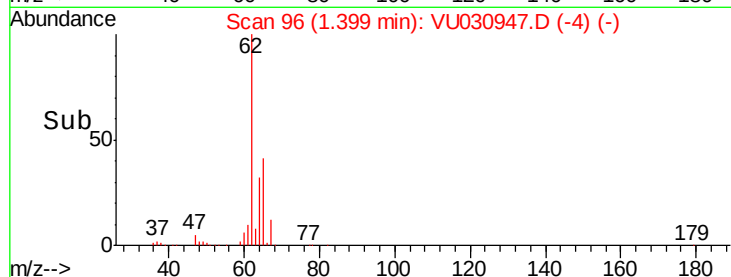
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 5.180 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.01 min

Lab File: VU030947.D

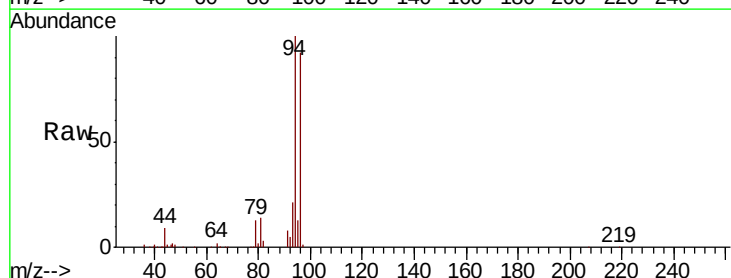
Acq: 09 Apr 2019 10:30

Tgt Ion: 94 Resp: 78650

Ion Ratio Lower Upper

94 100

96 92.3 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU030947.D (-75) (-)

Ion 96.00 (95.70 to 96.70): VU030947.D (-75) (-)

1.62

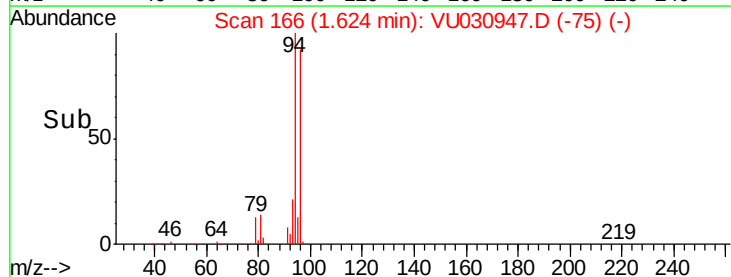
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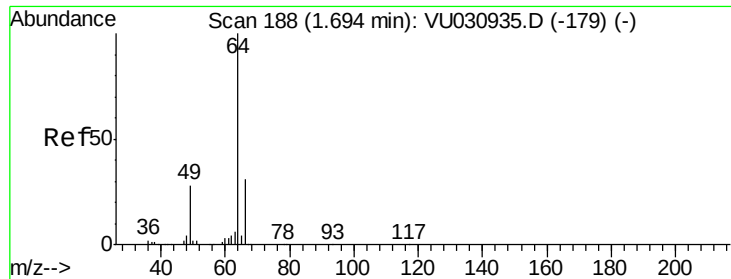
40000

20000

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Time-->

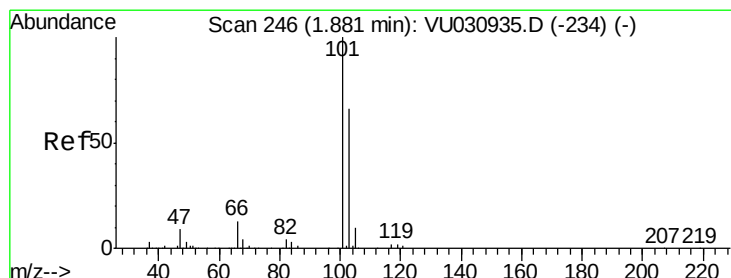
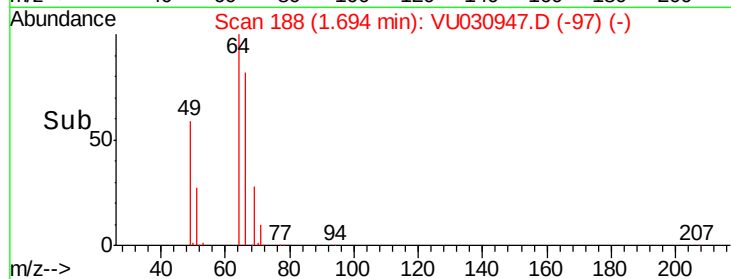
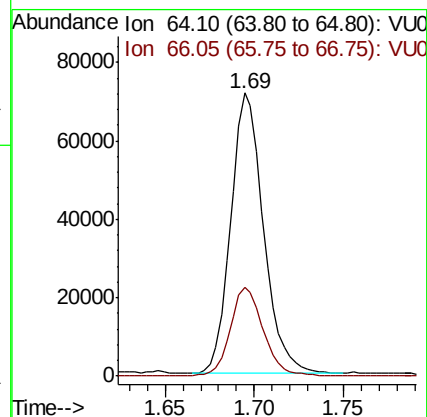
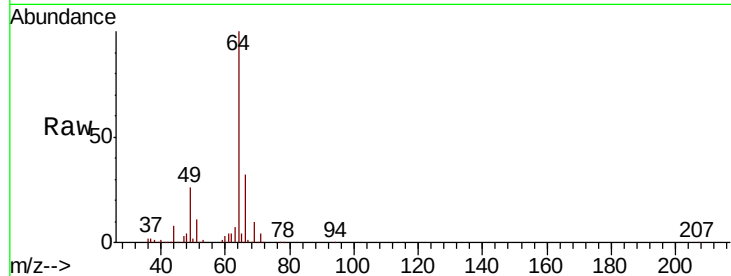




#8
Chloroethane
Concen: 5.170 ug/L
RT: 1.69 min Scan# 188
Delta R.T. -0.01 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

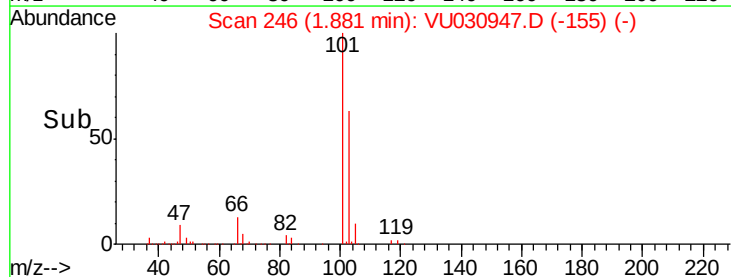
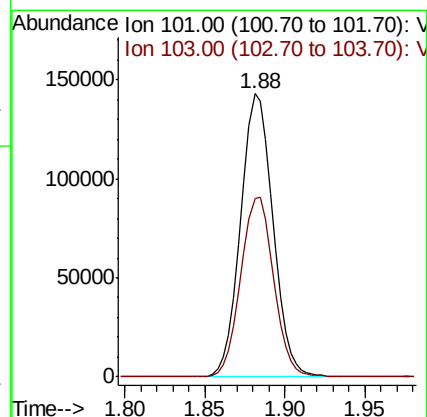
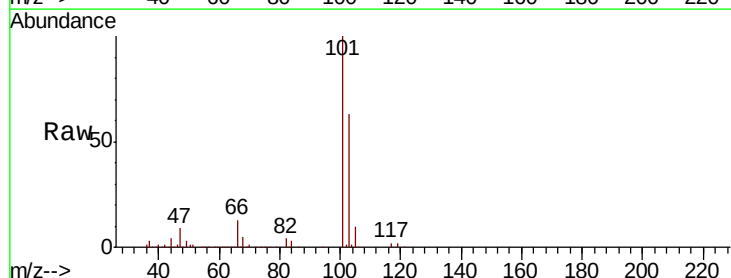
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

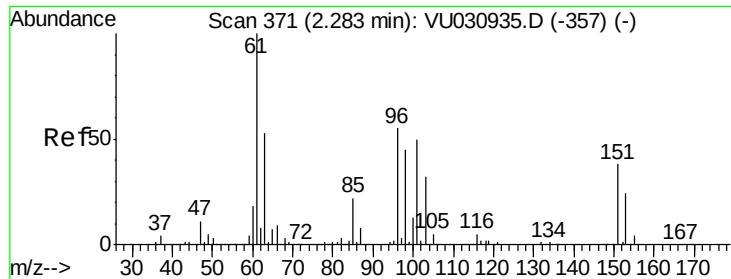
Tot Ion: 64 Resp: 91267
Ion Ratio Lower Upper
64 100
66 31.6 22.1 41.1



#9
Trichlorofluoromethane
Concen: 5.592 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.01 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Tgt Ion:101 Resp: 196704
Ion Ratio Lower Upper
101 100
103 64.5 52.0 78.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.282 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

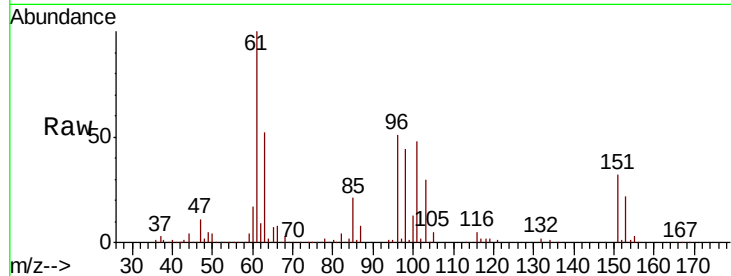
Tot Ion:101 Resp: 103336

Ion Ratio Lower Upper

101 100

85 44.7 35.3 52.9

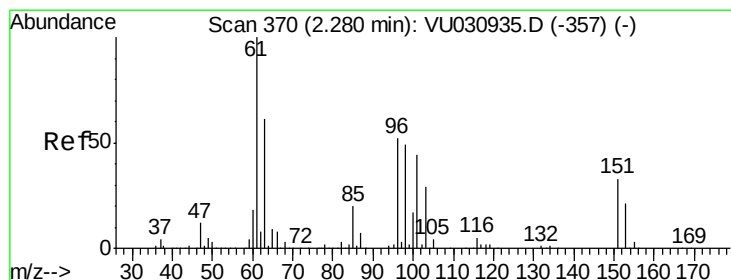
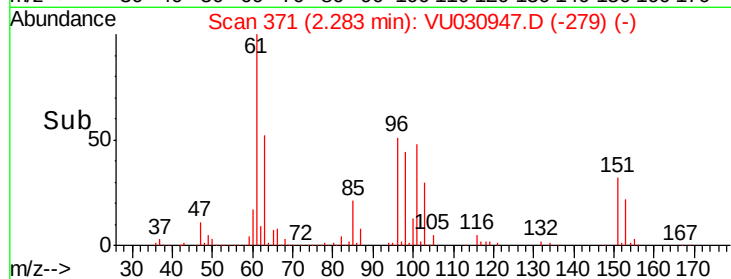
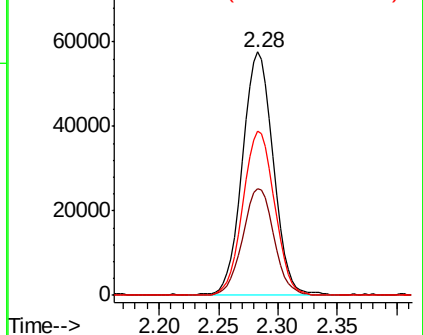
151 69.5 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.215 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

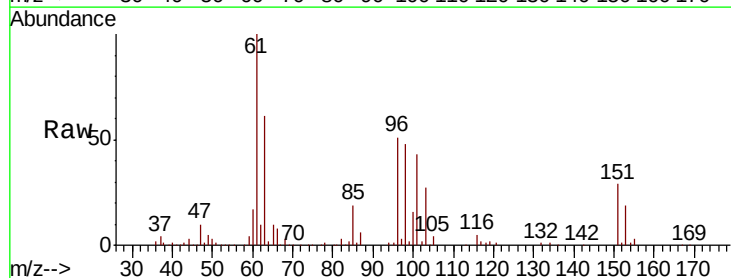
Tgt Ion: 96 Resp: 98698

Ion Ratio Lower Upper

96 100

61 196.8 136.9 254.3

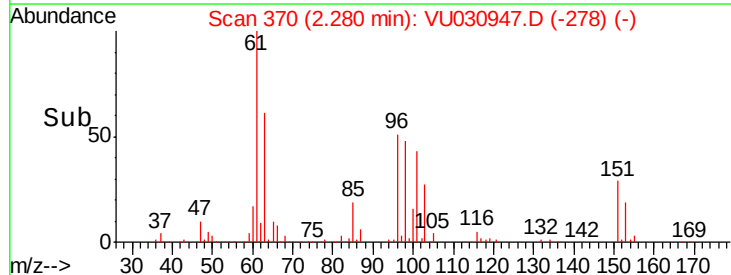
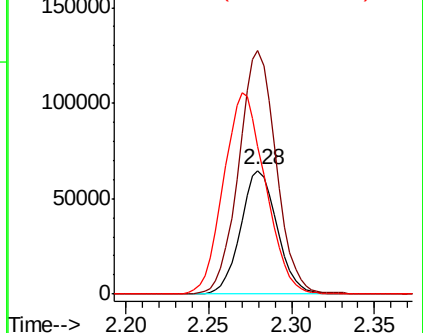
63 119.8 107.7 200.1

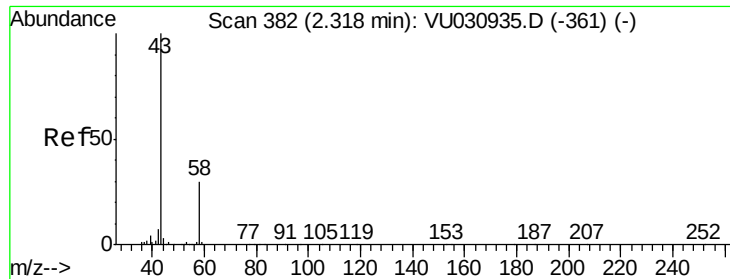


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 60.756 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.04 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

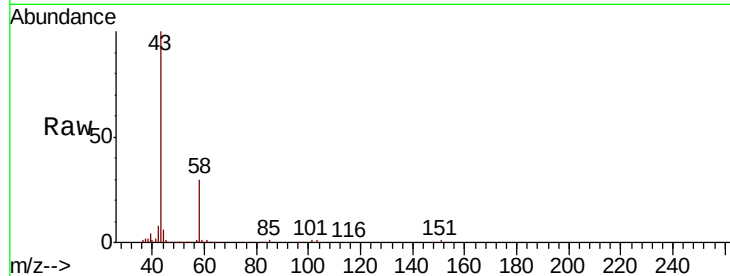
VSTD00513

Tot Ion: 43 Resp: 239896

Ion Ratio Lower Upper

43 100

58 30.1 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU030947.D (-361) (-)

Ion 58.05 (57.75 to 58.75): VU030947.D (-361) (-)

2.32

150000

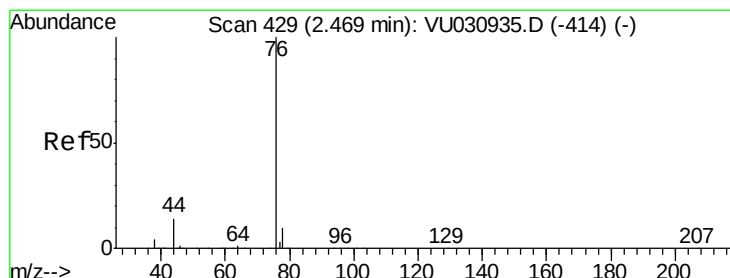
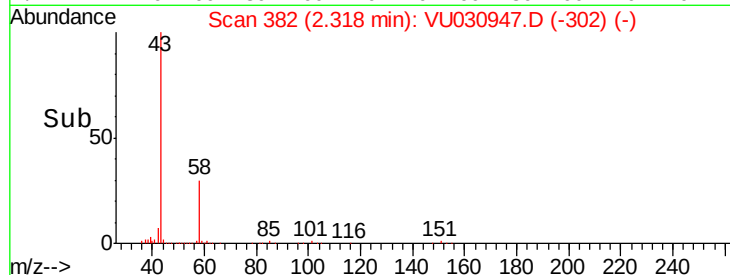
100000

50000

0

2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 5.080 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.01 min

Lab File: VU030947.D

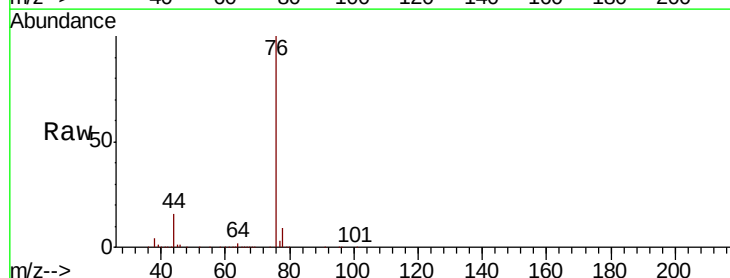
Acq: 09 Apr 2019 10:30

Tgt Ion: 76 Resp: 337183

Ion Ratio Lower Upper

76 100

78 8.5 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU030947.D (-338) (-)

Ion 78.00 (77.70 to 78.70): VU030947.D (-338) (-)

2.47

250000

200000

150000

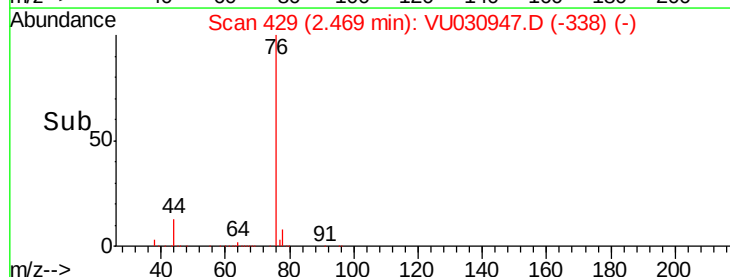
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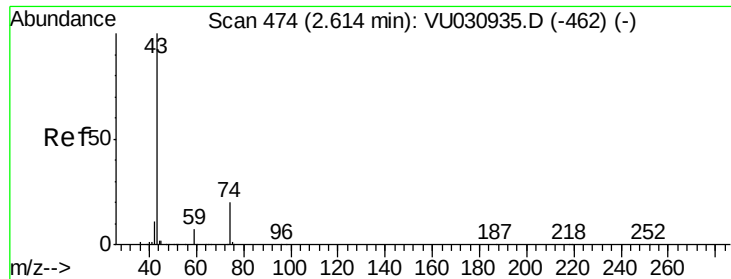
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0

2.40 2.45 2.50 2.55 2.60

Time-->

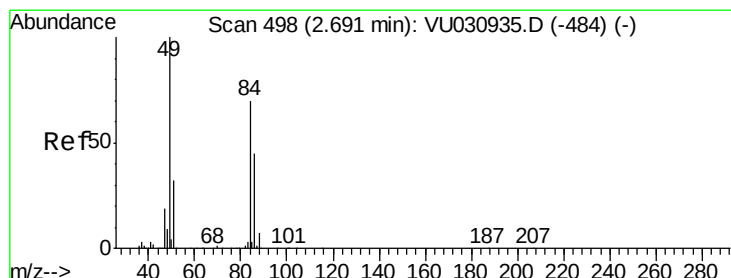
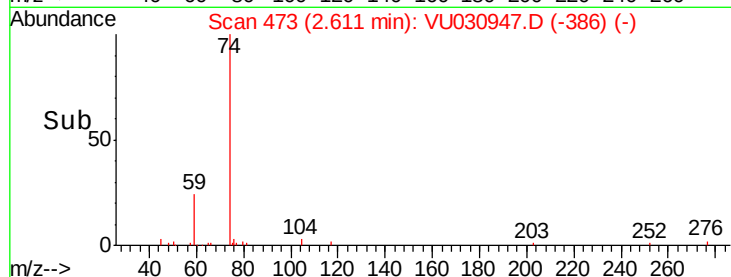
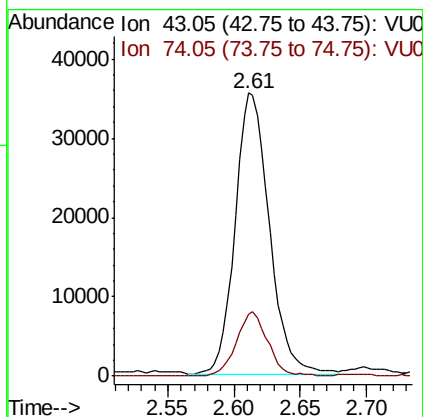
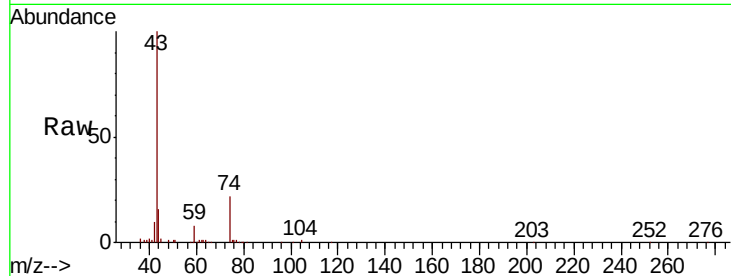




#15
Methyl Acetate
Concen: 6.209 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.02 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

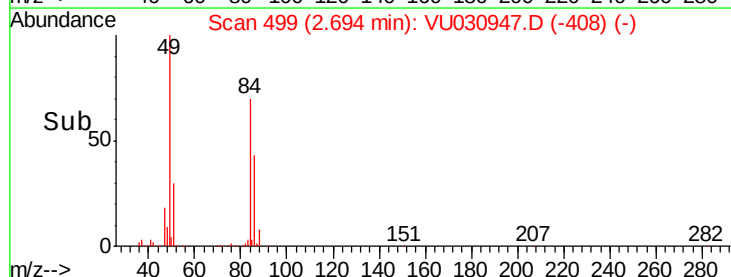
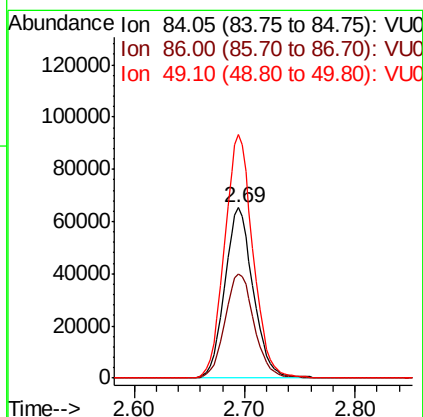
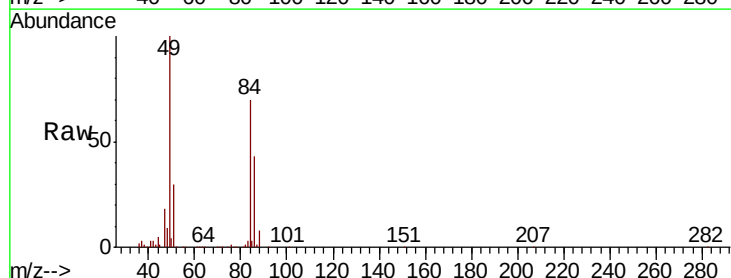
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

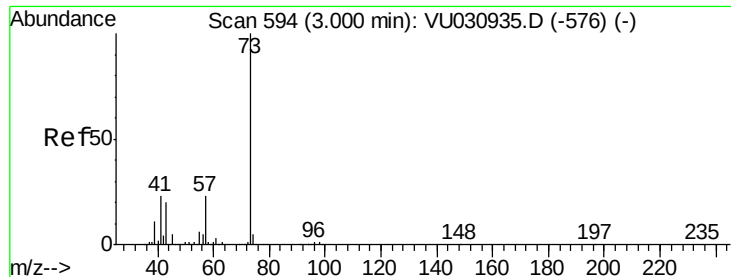
Tot Ion: 43 Resp: 63338
Ion Ratio Lower Upper
43 100
74 21.2 17.1 25.7



#16
Methylene chloride
Concen: 5.271 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.01 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Tgt Ion: 84 Resp: 116286
Ion Ratio Lower Upper
84 100
86 61.1 43.4 80.6
49 143.0 98.5 182.9





#17

Methyl tert-butyl Ether

Concen: 5.568 ug/L

RT: 3.00 min Scan# 594

Delta R.T. -0.01 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

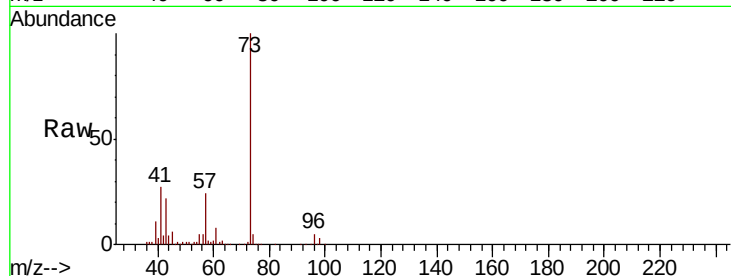
Tot Ion: 73 Resp: 282074

Ion Ratio Lower Upper

73 100

43 21.9 17.0 25.4

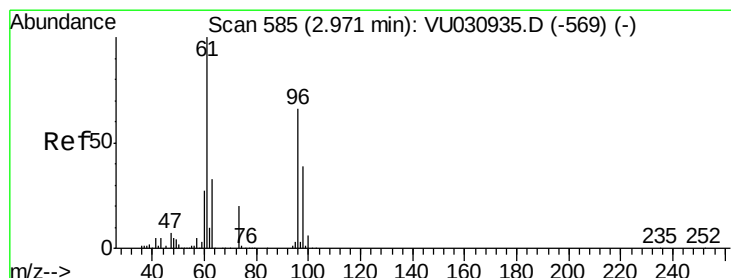
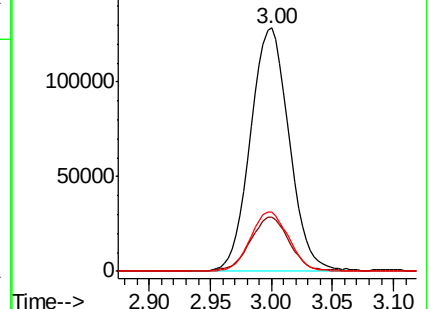
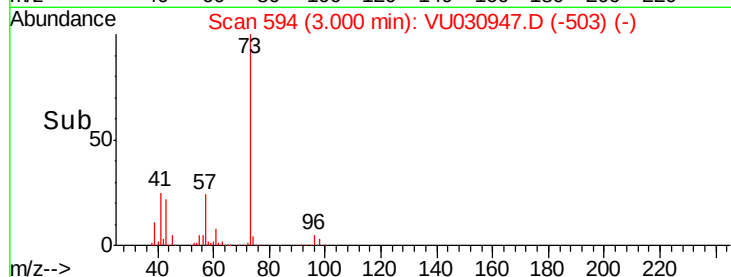
57 24.3 19.4 29.2



Abundance Ion 73.10 (72.80 to 73.80): VU030947.D (-503) (-)

Ion 43.05 (42.75 to 43.75): VU030947.D (-503) (-)

Ion 57.10 (56.80 to 57.80): VU030947.D (-503) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.334 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.01 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

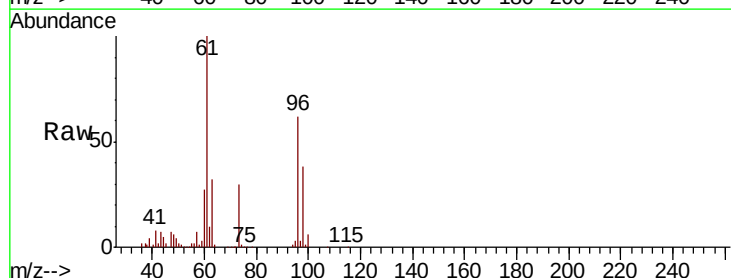
Tgt Ion: 96 Resp: 106575

Ion Ratio Lower Upper

96 100

61 161.7 116.8 216.8

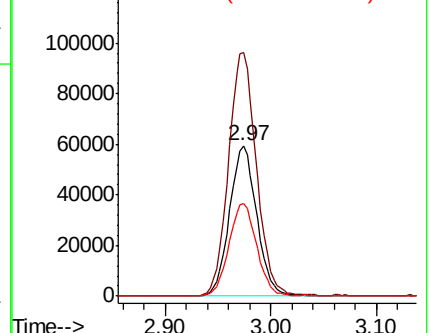
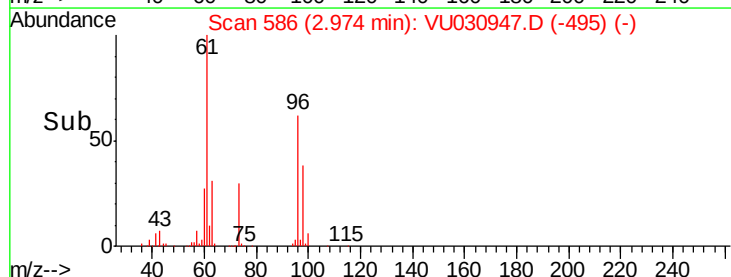
98 61.6 46.8 87.0

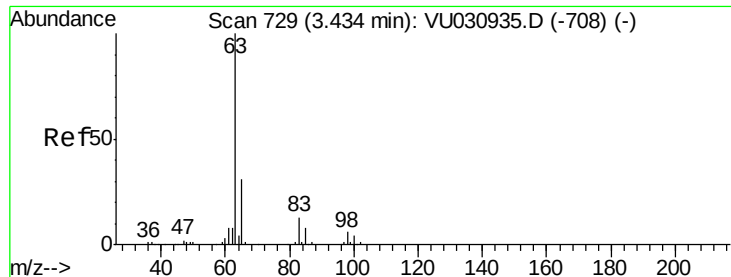


Abundance Ion 96.00 (95.70 to 96.70): VU030947.D (-495) (-)

Ion 61.05 (60.75 to 61.75): VU030947.D (-495) (-)

Ion 97.95 (97.65 to 98.65): VU030947.D (-495) (-)

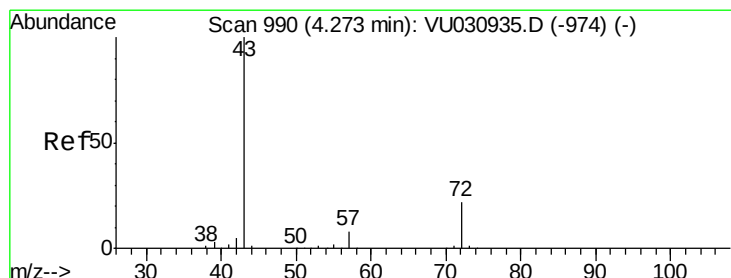
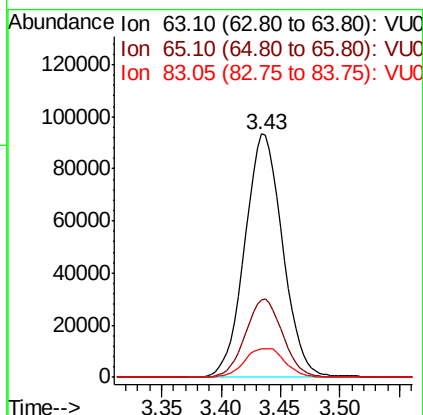
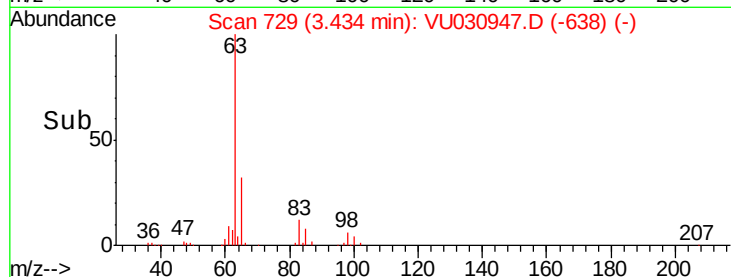
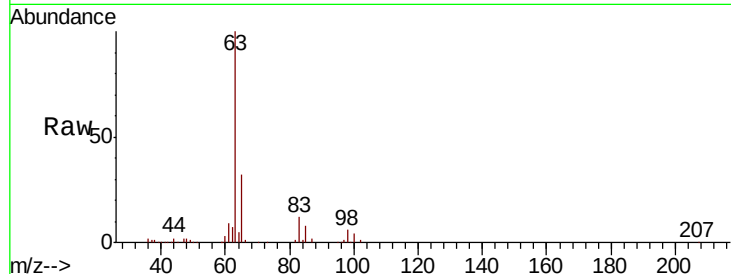




#19
 1,1-Dichloroethane
 Concen: 4.872 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. -0.01 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

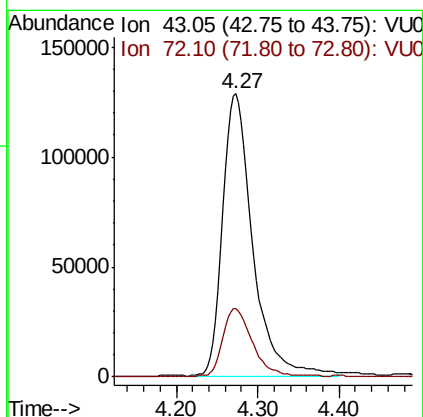
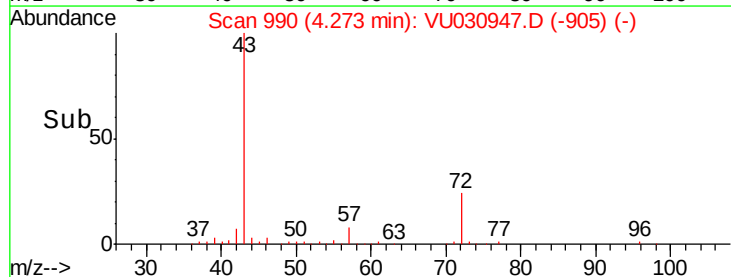
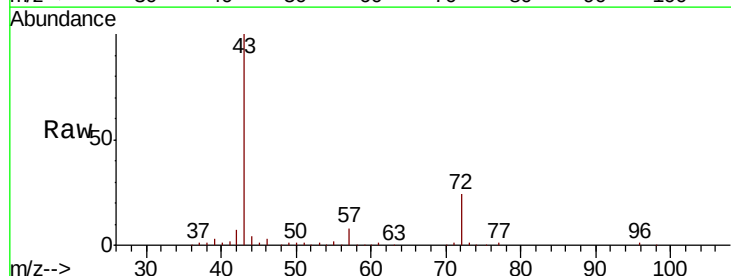
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

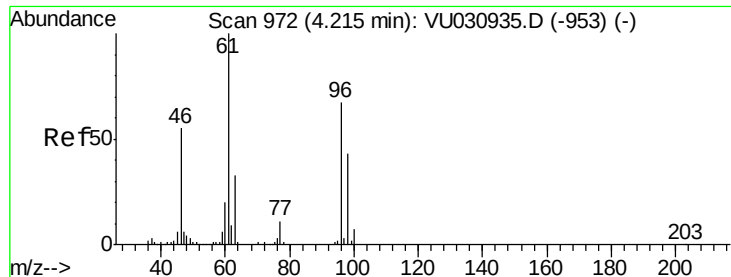
Tot Ion: 63 Resp: 205901
 Ion Ratio Lower Upper
 63 100
 65 31.9 21.6 40.0
 83 11.8 9.1 16.9



#21
 2-Butanone
 Concen: 53.369 ug/L
 RT: 4.27 min Scan# 990
 Delta R.T. -0.03 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Tgt Ion: 43 Resp: 333975
 Ion Ratio Lower Upper
 43 100
 72 24.5 11.2 33.5



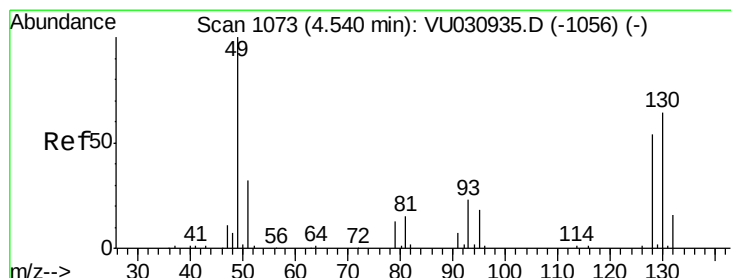
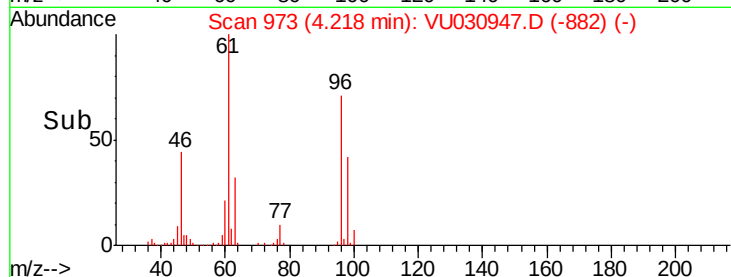
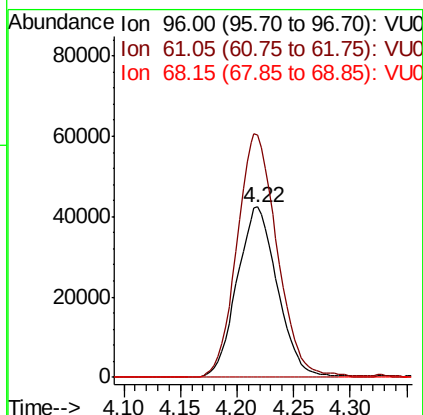
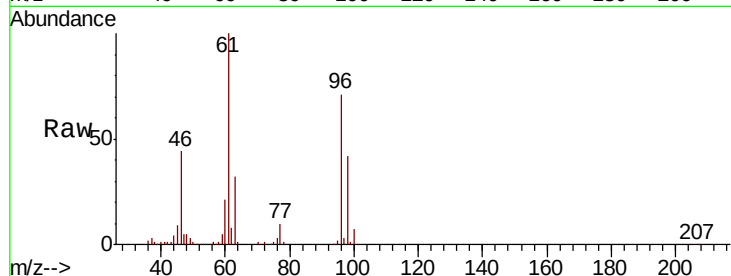


#22

cis-1,2-Dichloroethene
 Concen: 4.927 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.01 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00513

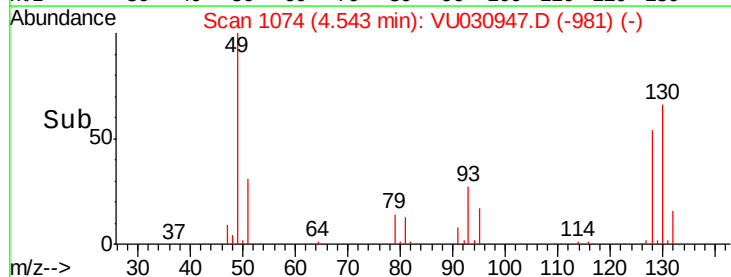
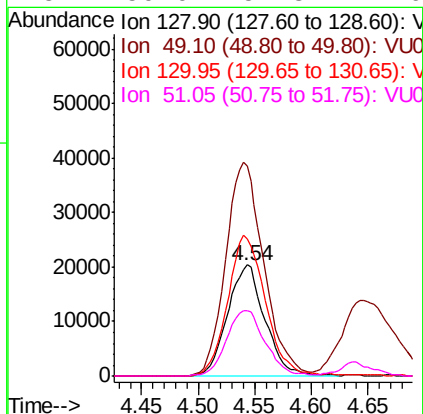
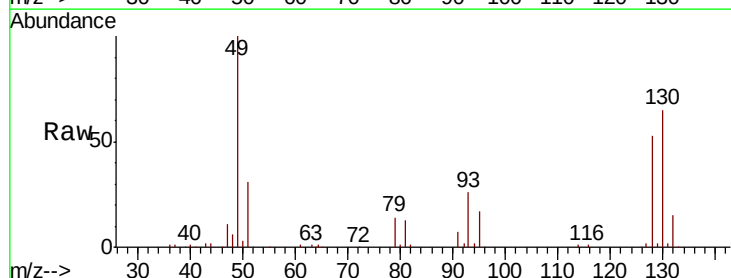
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.8	98.9	183.7
68	0.0	0.0	0.0

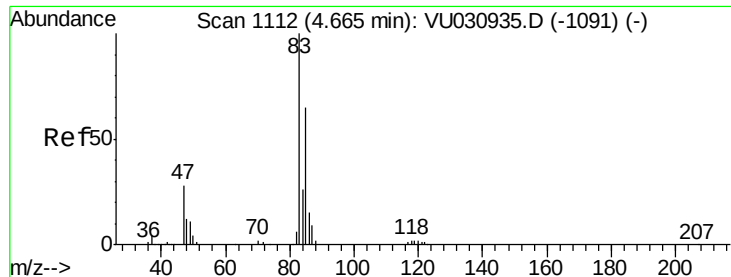


#23

Bromochloromethane
 Concen: 5.508 ug/L
 RT: 4.54 min Scan# 1074
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Tgt Ion	Ratio	Lower	Upper
128	100		
49	189.1	140.6	261.2
130	123.3	87.3	162.1
51	59.0	51.8	77.6

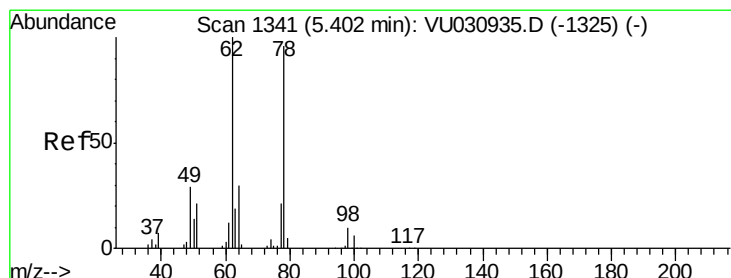
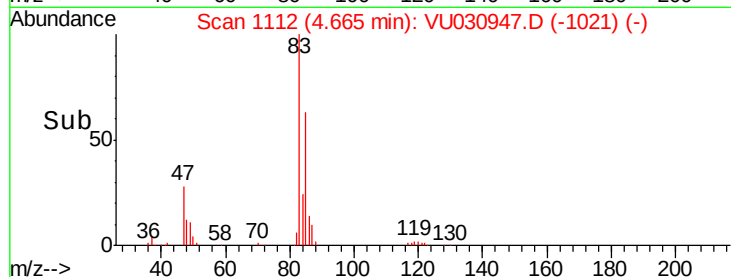
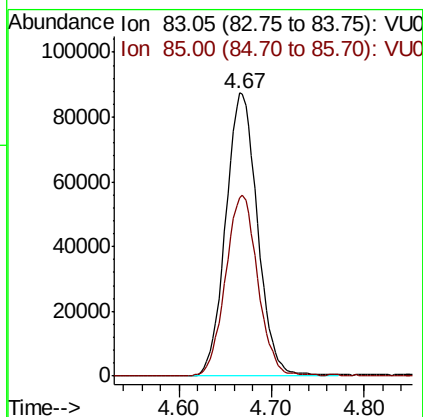
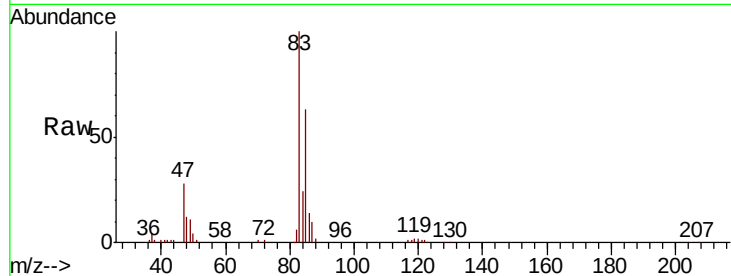




#25
Chloroform
Concen: 5.409 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

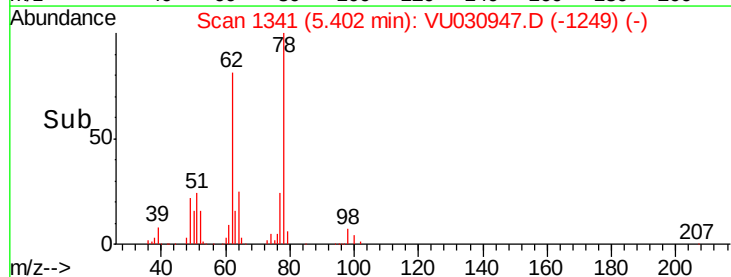
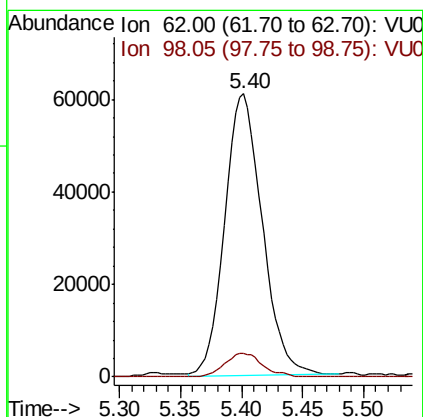
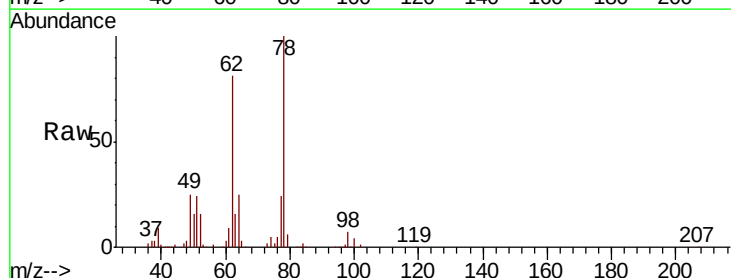
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

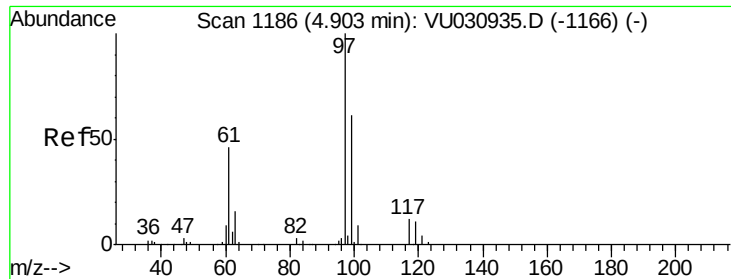
Tot Ion: 83 Resp: 208405
Ion Ratio Lower Upper
83 100
85 63.1 44.2 82.2



#27
1,2-Dichloroethane
Concen: 5.230 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Tgt Ion: 62 Resp: 130753
Ion Ratio Lower Upper
62 100
98 8.2 7.4 11.2

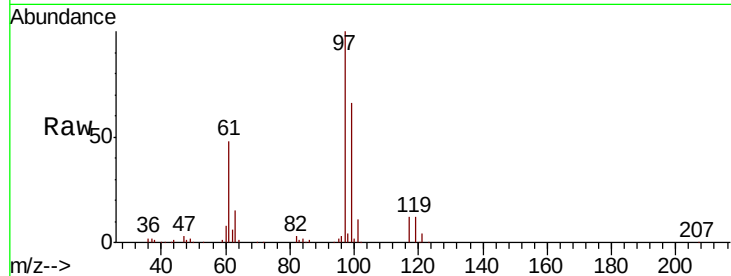




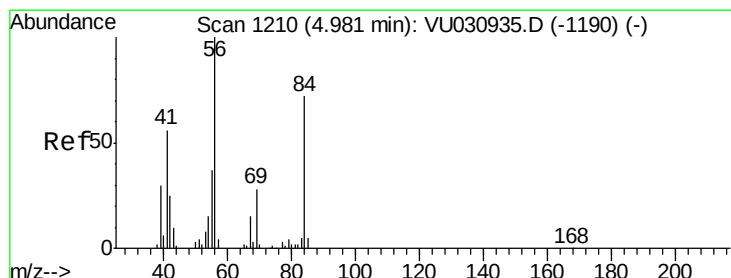
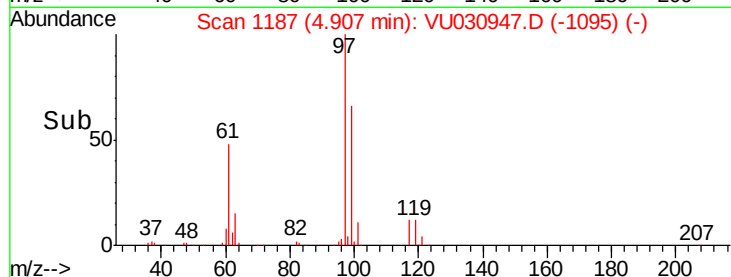
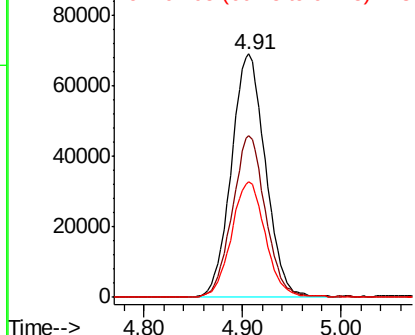
#29
 1,1,1-Trichloroethane
 Concen: 4.996 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion: 97 Resp: 166492
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.8 77.6
 61 47.0 38.1 57.1

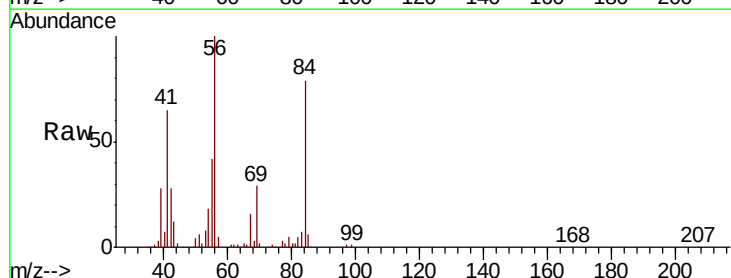


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

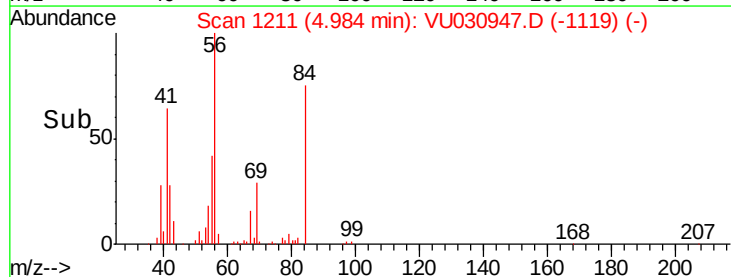
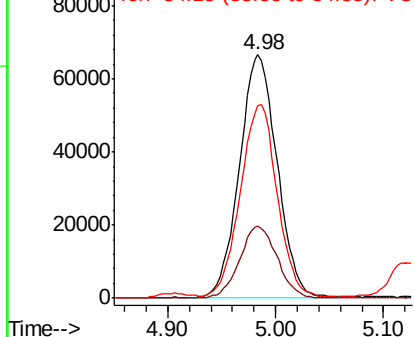


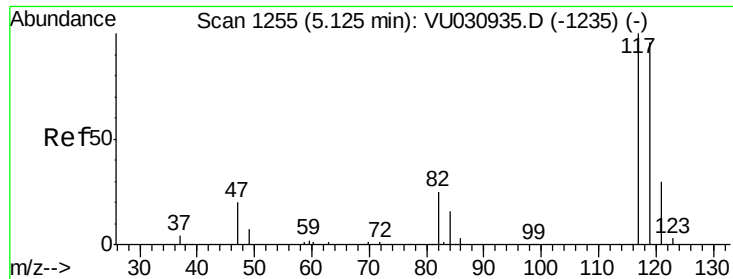
#30
 Cyclohexane
 Concen: 4.020 ug/L
 RT: 4.98 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Tgt Ion: 56 Resp: 161738
 Ion Ratio Lower Upper
 56 100
 69 29.3 22.3 33.5
 84 78.0 58.3 87.5



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0

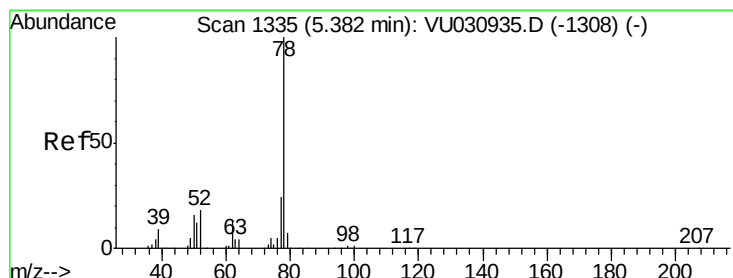
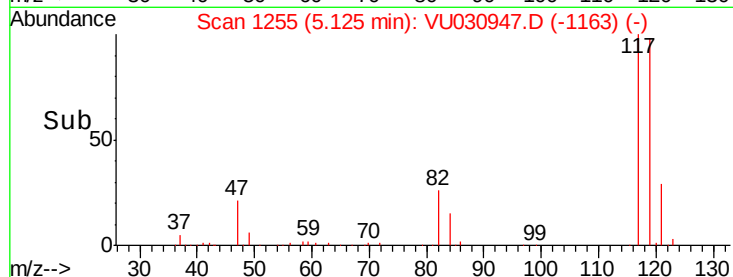
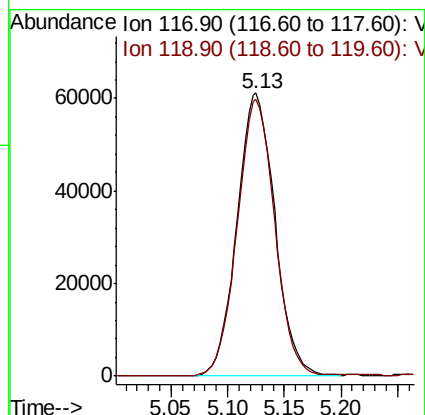
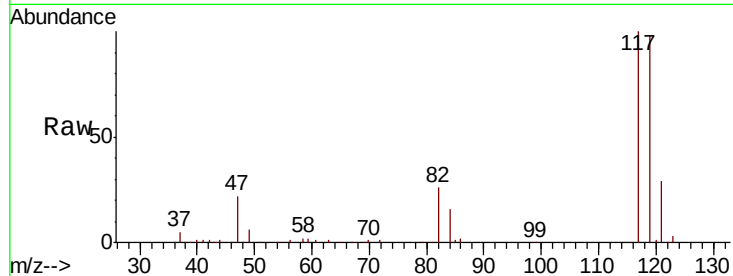




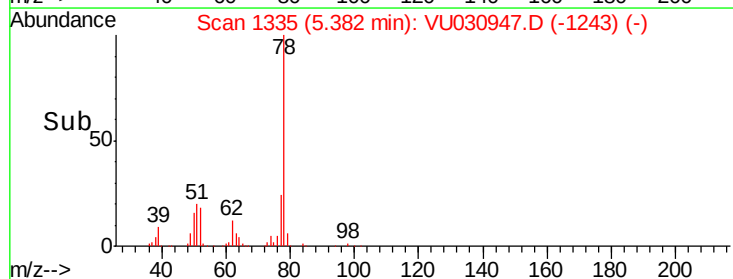
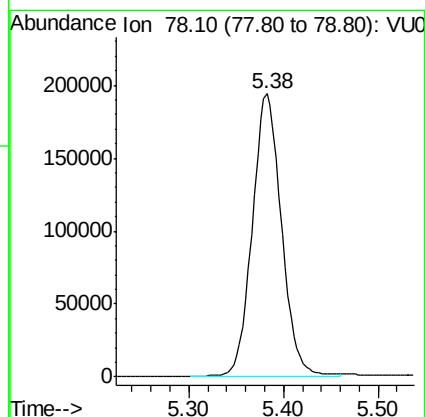
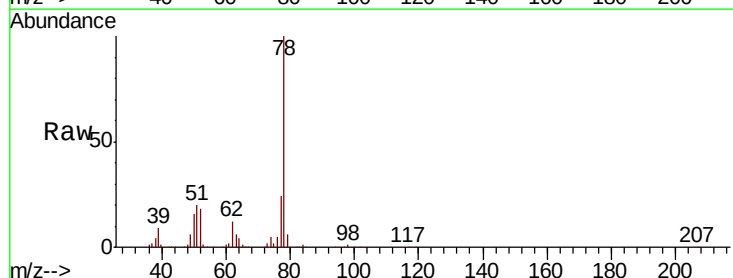
#31
Carbon tetrachloride
Concen: 5.090 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

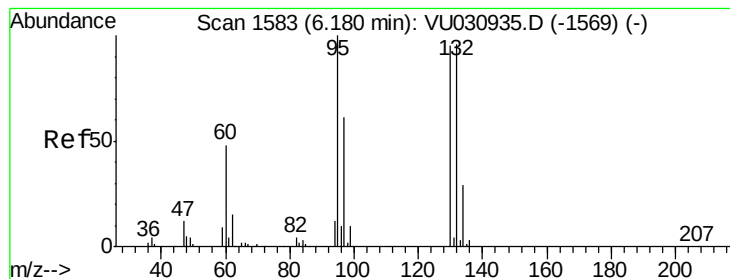
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion:117 Resp: 142412
Ion Ratio Lower Upper
117 100
119 96.9 73.7 110.5



#33
Benzene
Concen: 4.726 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30
Tgt Ion: 78 Resp: 418271





#34

Trichloroethene

Concen: 4.719 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

Tot Ion: 95 Resp: 104539

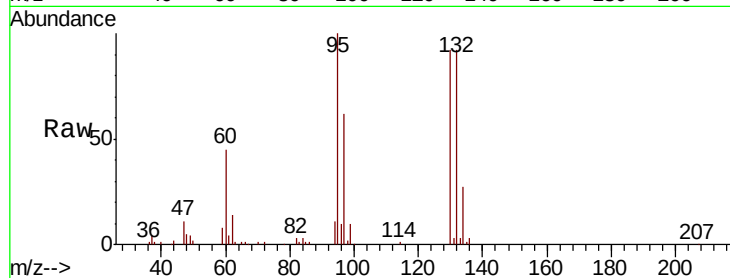
Ion Ratio Lower Upper

95 100

97 62.3 43.5 80.9

132 92.1 60.7 112.7

130 91.9 65.1 120.9

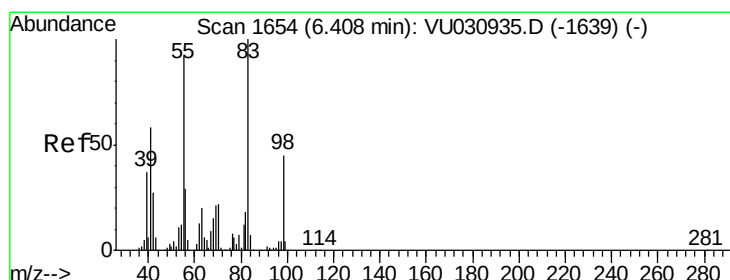
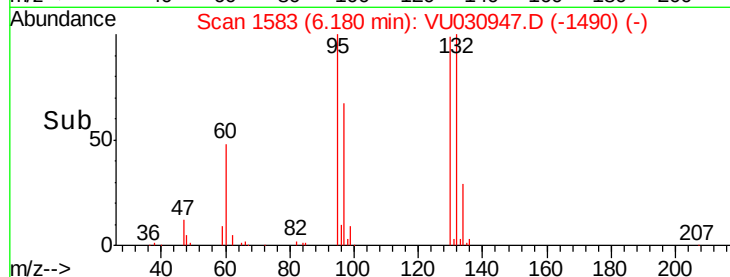
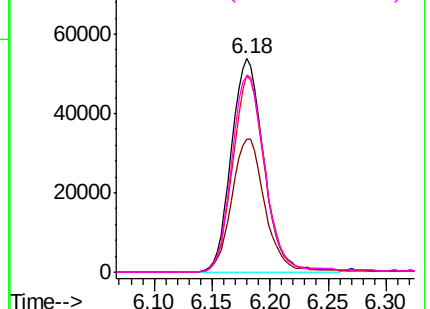


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.322 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

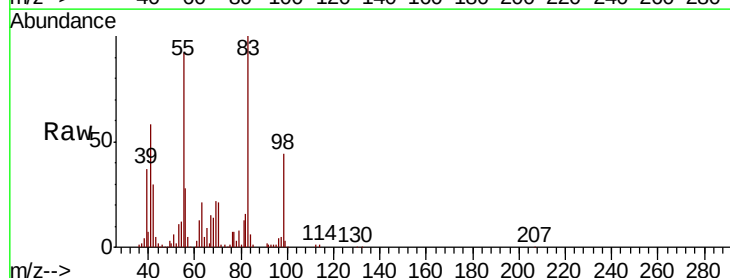
Tgt Ion: 83 Resp: 152815

Ion Ratio Lower Upper

83 100

55 91.6 72.6 108.8

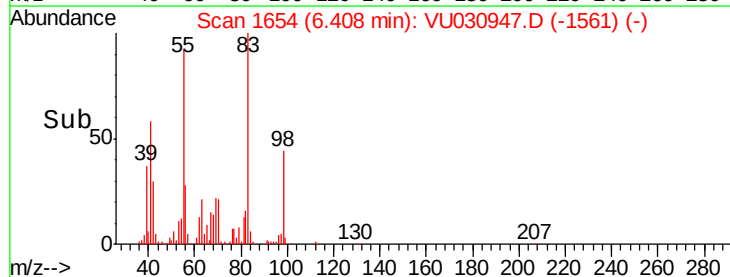
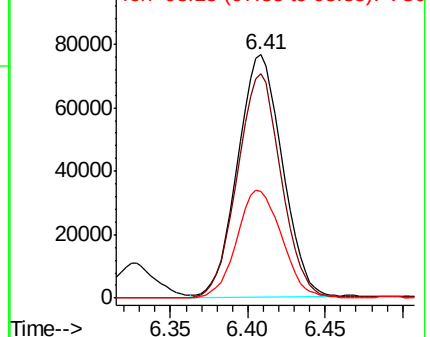
98 45.1 35.0 52.6

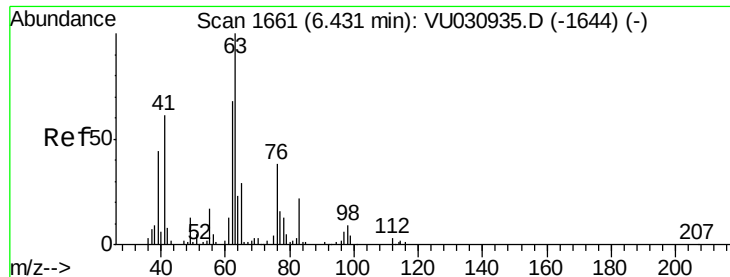


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

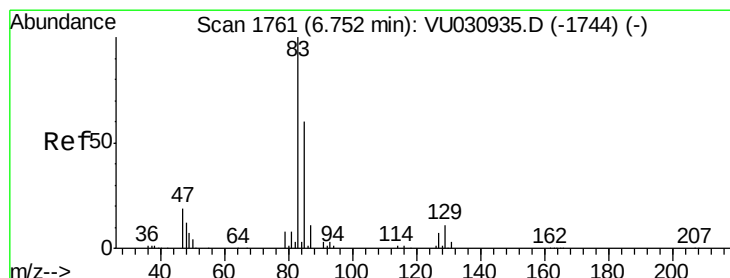
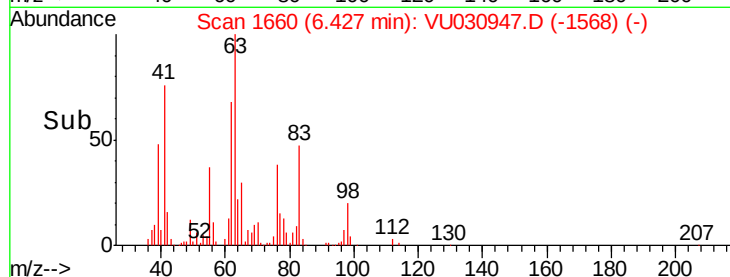
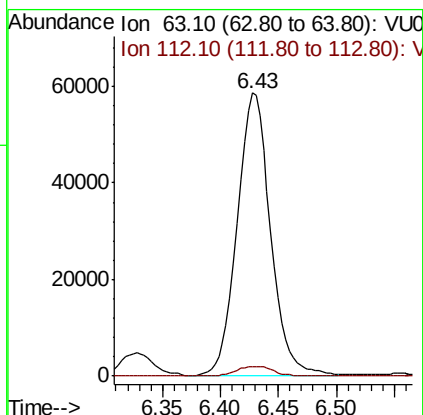
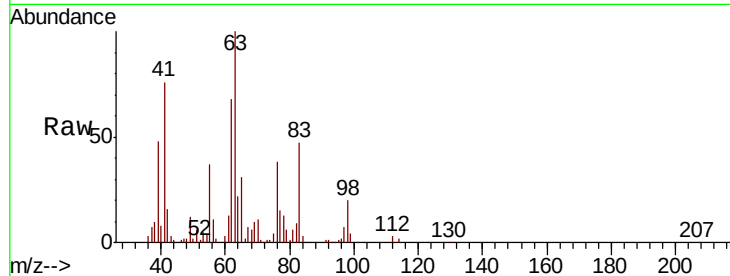




#37
 1,2-Dichloropropane
 Concen: 4.787 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

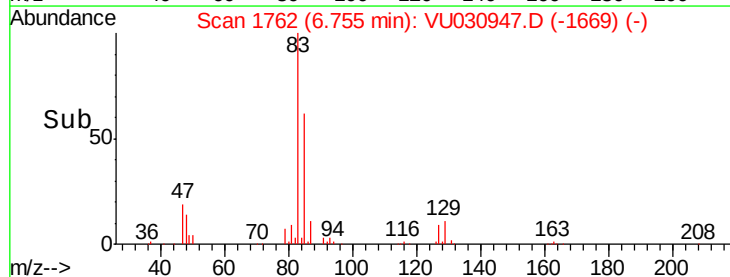
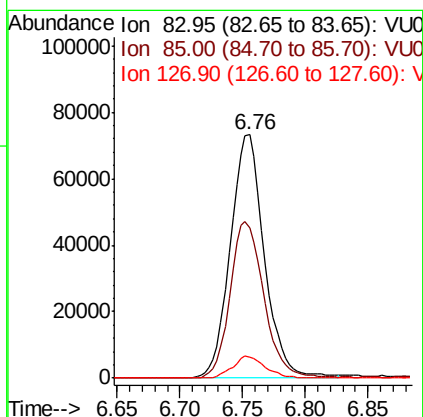
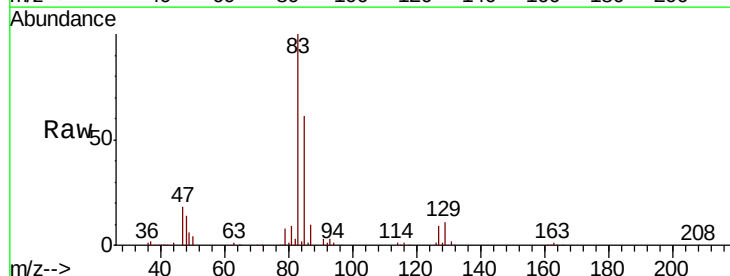
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

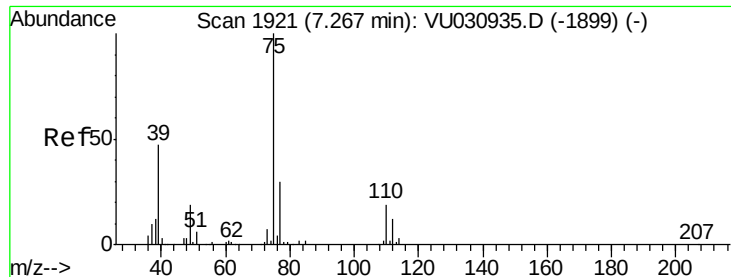
Tot Ion: 63 Resp: 116586
 Ion Ratio Lower Upper
 63 100
 112 3.9 2.8 4.2



#38
 Bromodichloromethane
 Concen: 4.815 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Tgt Ion: 83 Resp: 136927
 Ion Ratio Lower Upper
 83 100
 85 61.4 45.1 83.9
 127 8.7 6.5 9.7

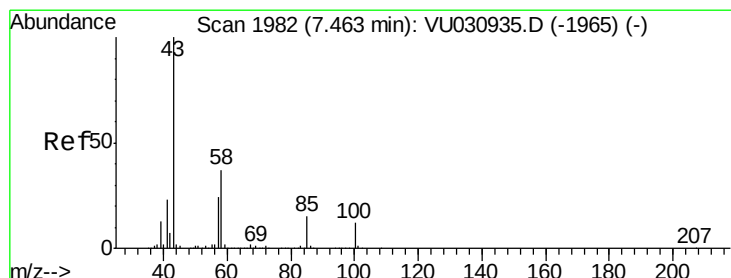
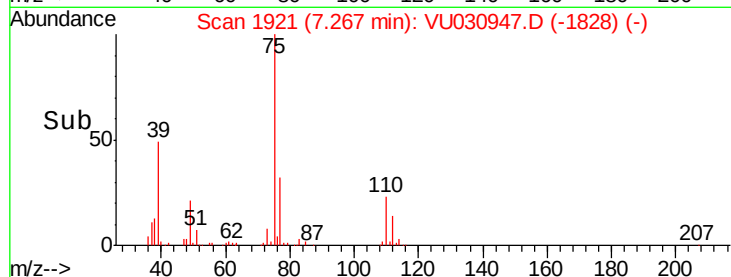
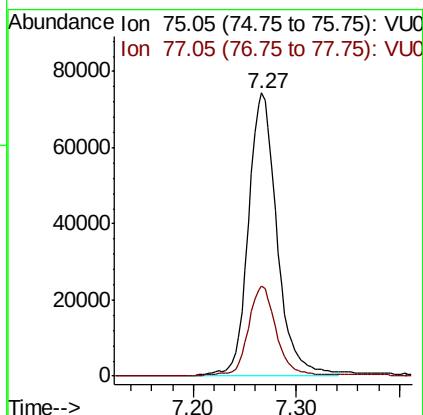
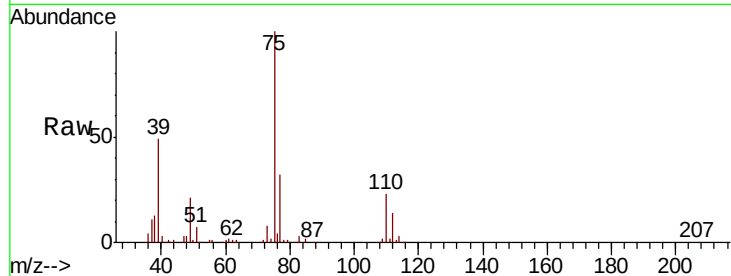




#39
 cis-1,3-Dichloropropene
 Concen: 4.411 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

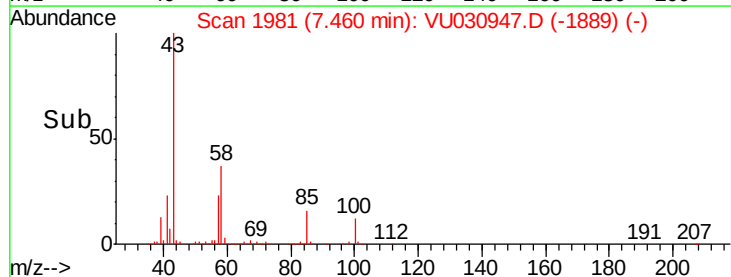
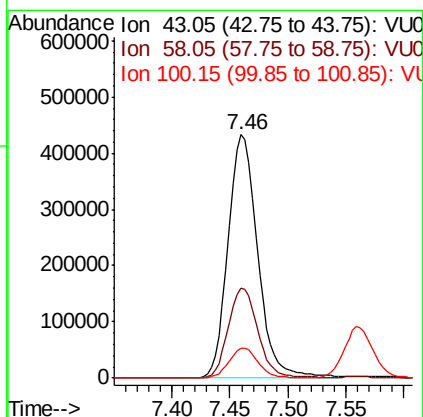
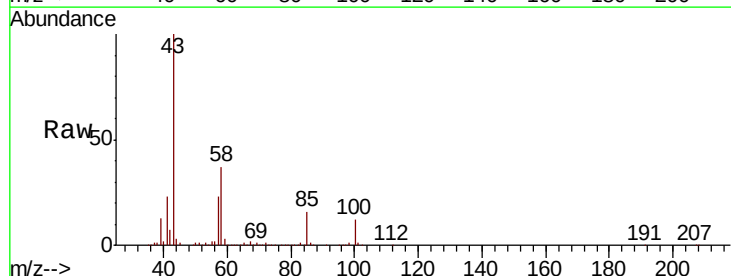
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

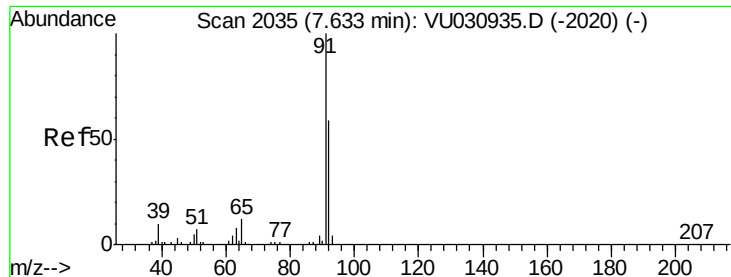
Tot Ion: 75 Resp: 143662
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 50.326 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Tgt Ion: 43 Resp: 764566
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.4 44.2
 100 12.2 9.2 13.8





#42

Toluene

Concen: 4.865 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

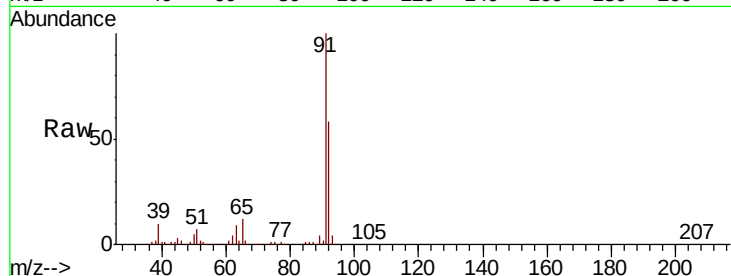
VSTD00513

Tot Ion: 91 Resp: 431803

Ion Ratio Lower Upper

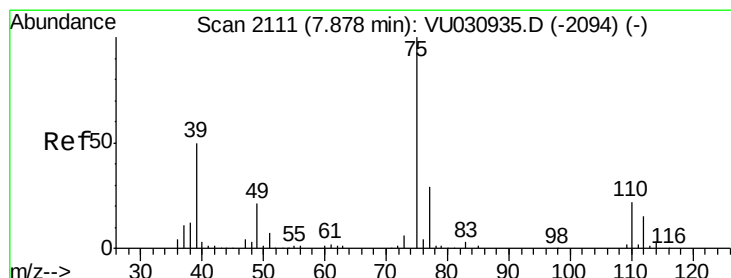
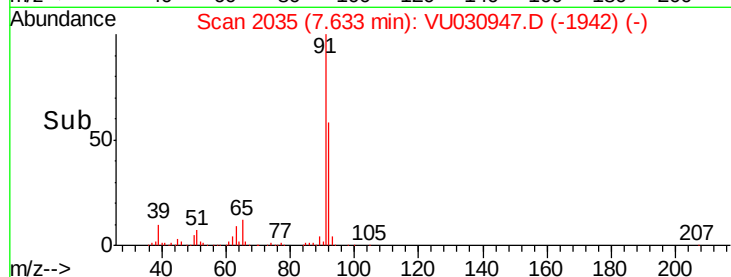
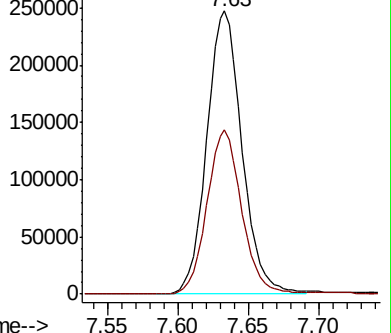
91 100

92 57.9 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU030947.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU030947.D (-2020) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.798 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU030947.D

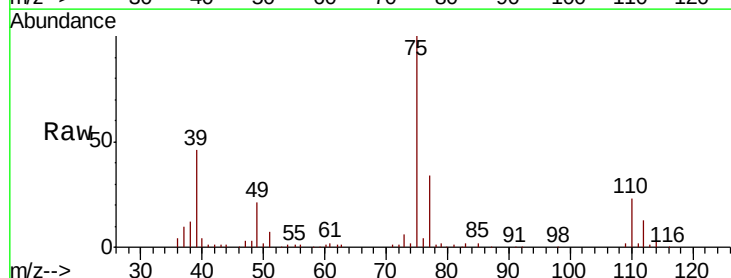
Acq: 09 Apr 2019 10:30

Tgt Ion: 75 Resp: 120963

Ion Ratio Lower Upper

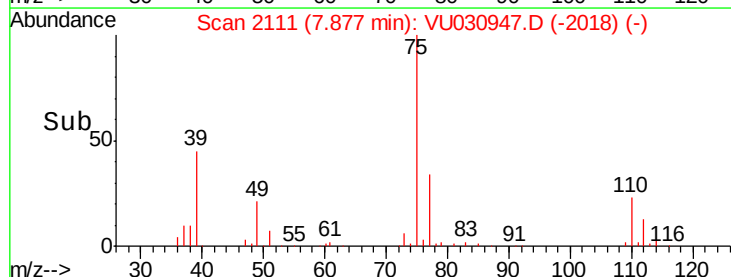
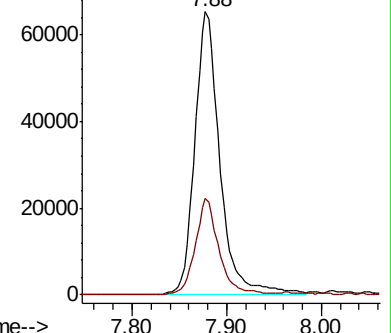
75 100

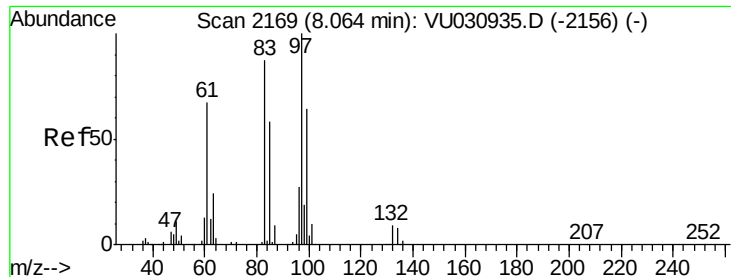
77 34.1 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU030947.D (-2094) (-)

Ion 77.05 (76.75 to 77.75): VU030947.D (-2094) (-)





#45

1,1,2-Trichloroethane

Concen: 5.203 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

Tot Ion: 97 Resp: 75563

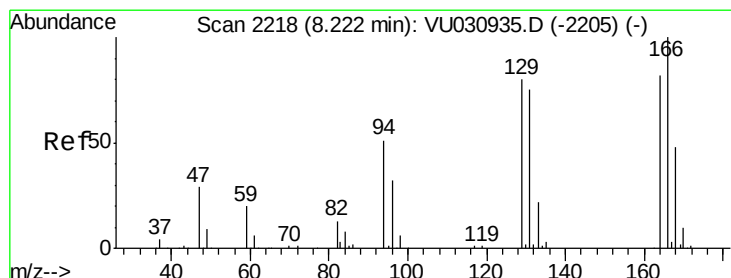
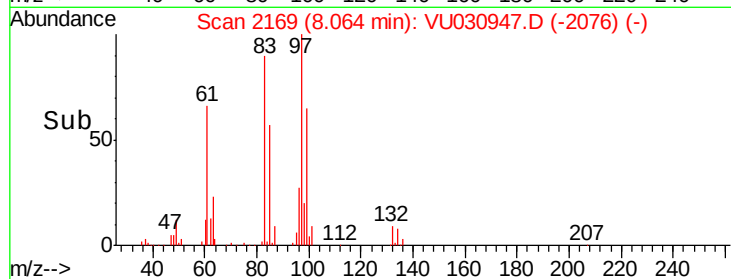
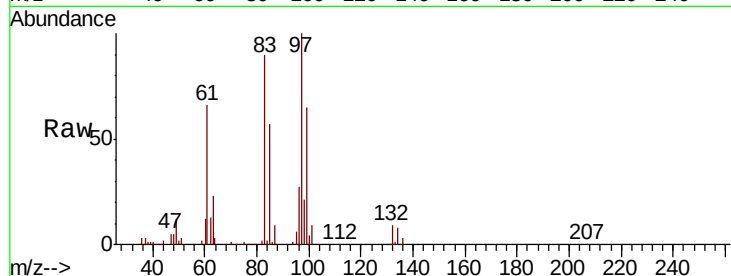
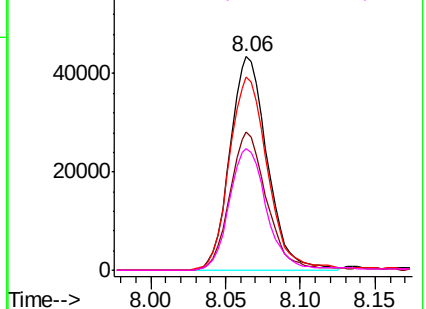
Ion	Ratio	Lower	Upper
97	100		
99	64.9	45.3	84.1
83	90.4	66.5	123.5
85	57.1	41.2	76.4

Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.997 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Tgt Ion: 164 Resp: 77650

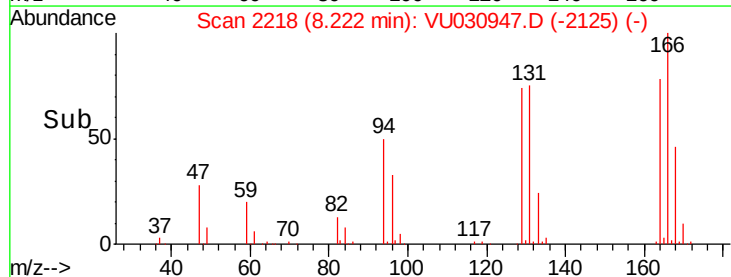
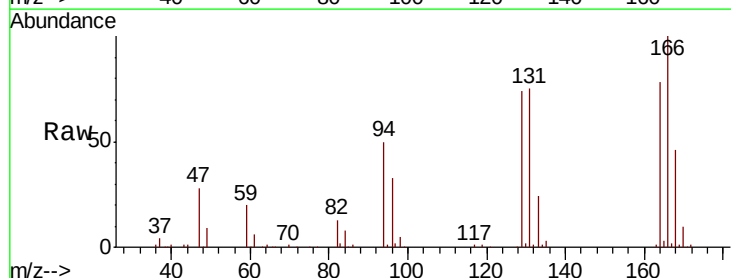
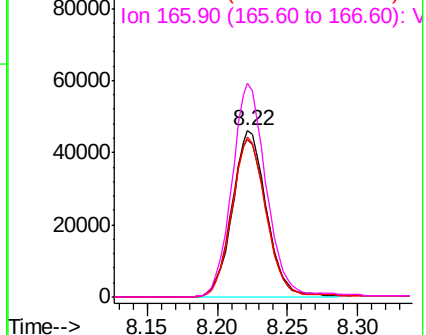
Ion	Ratio	Lower	Upper
164	100		
129	94.8	70.1	130.1
131	96.3	67.8	125.8
166	128.7	87.9	163.3

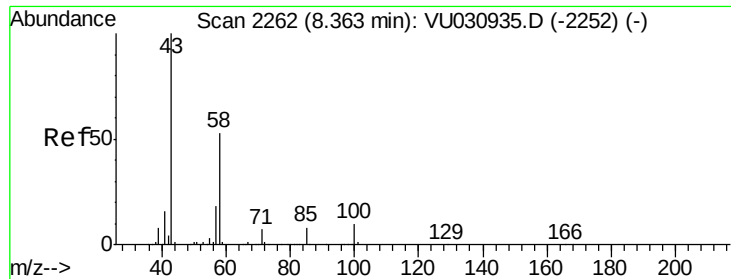
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

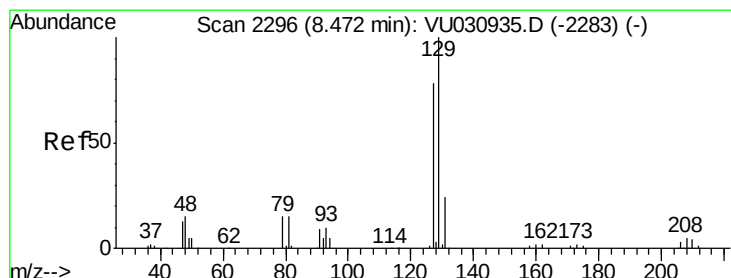
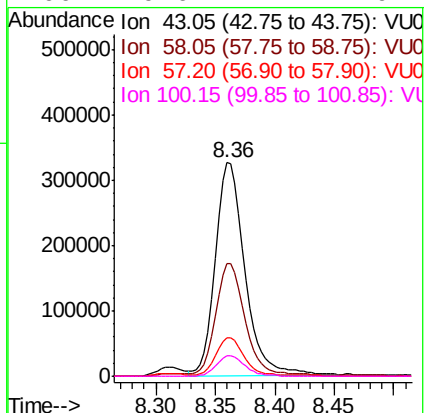
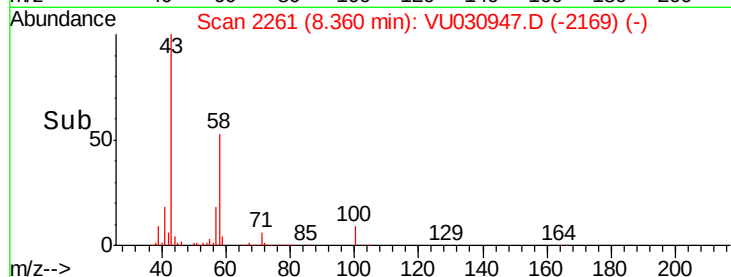
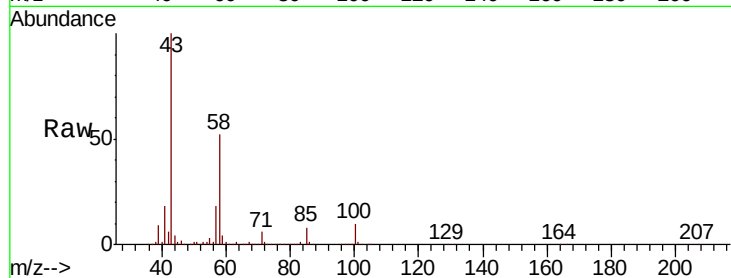




#48
2-Hexanone
Concen: 53.081 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

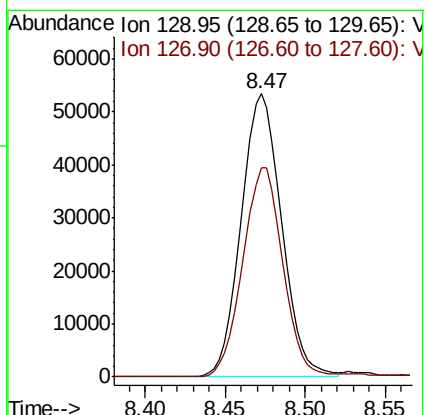
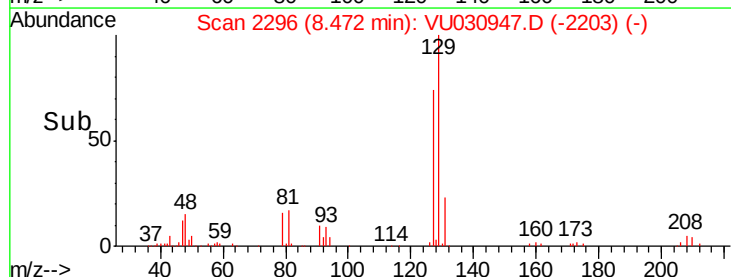
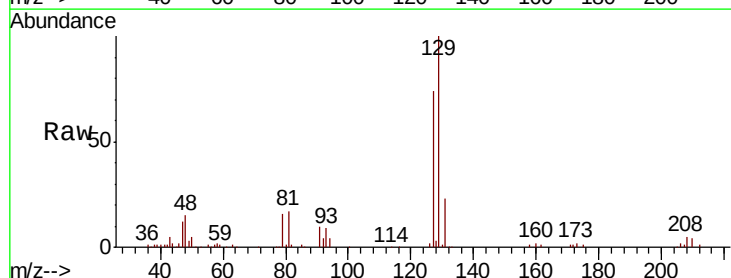
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

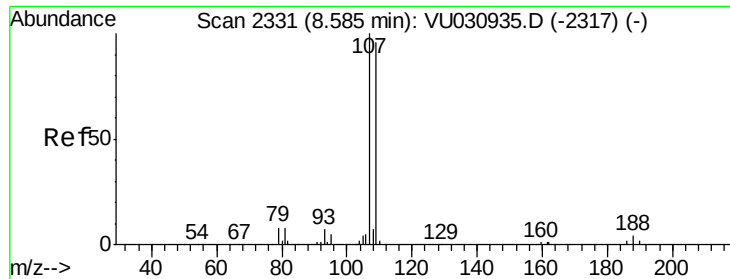
Tot Ion: 43 Resp: 558762
Ion Ratio Lower Upper
43 100
58 53.1 42.5 63.7
57 17.1 13.9 20.9
100 9.6 7.1 10.7



#49
Dibromochloromethane
Concen: 5.312 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Tgt Ion: 129 Resp: 92238
Ion Ratio Lower Upper
129 100
127 74.1 51.1 94.9

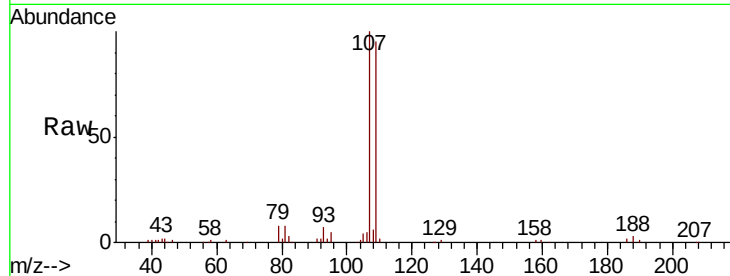




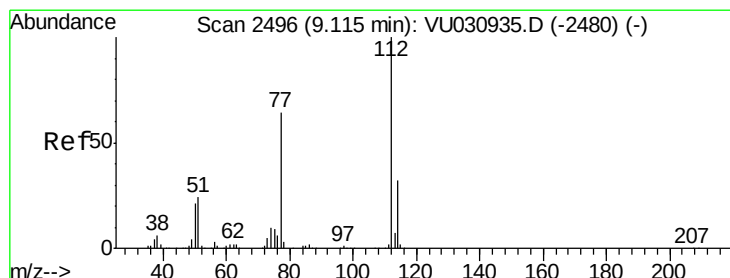
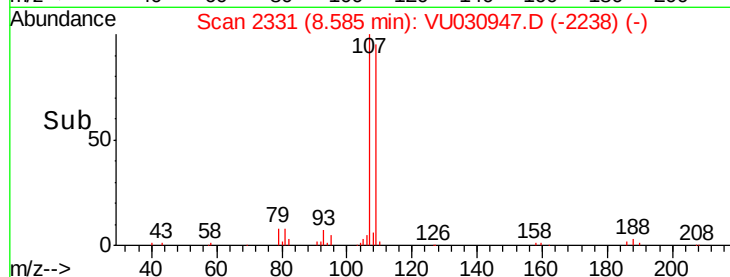
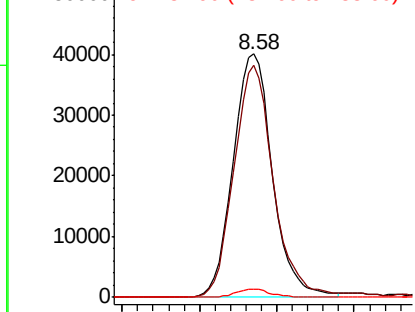
#50
1,2-Dibromoethane
Concen: 5.232 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion:107 Resp: 70823
Ion Ratio Lower Upper
107 100
109 95.3 65.6 121.8
188 3.3 2.9 4.3

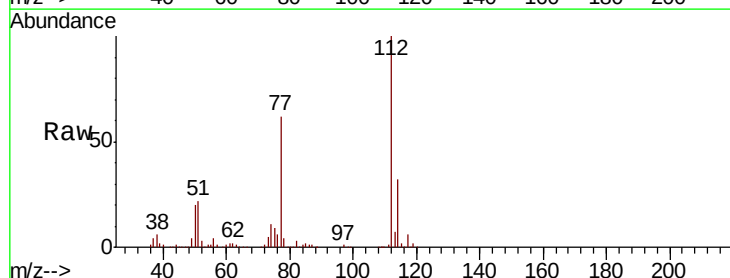


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

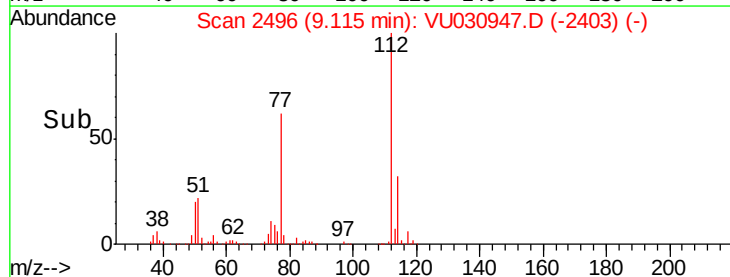
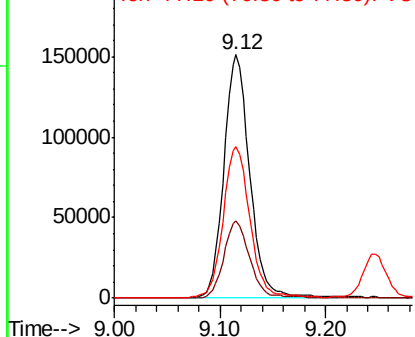


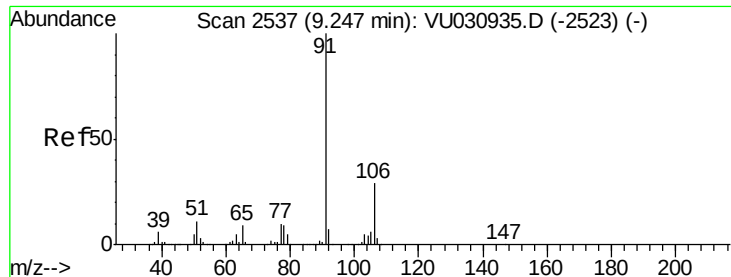
#51
Chlorobenzene
Concen: 4.704 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Tgt Ion:112 Resp: 257434
Ion Ratio Lower Upper
112 100
114 31.5 22.3 41.5
77 62.2 51.0 76.6



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.618 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

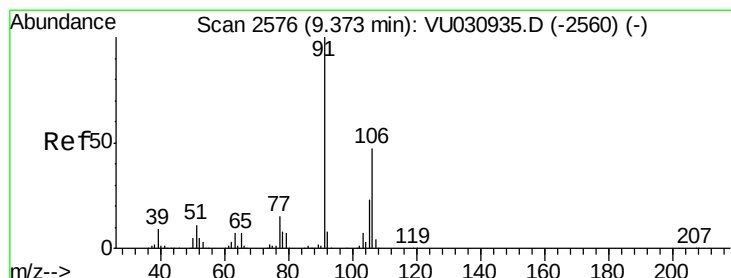
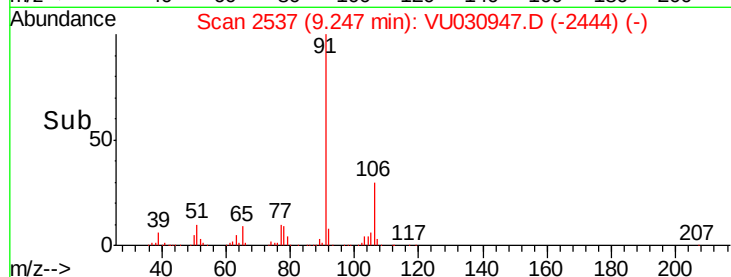
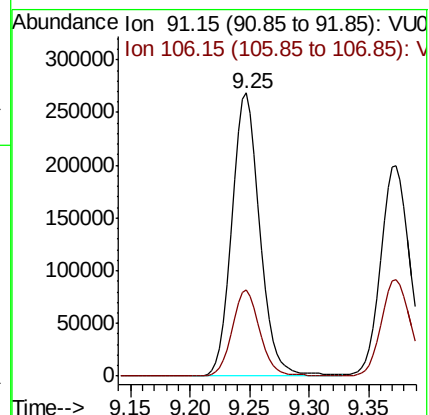
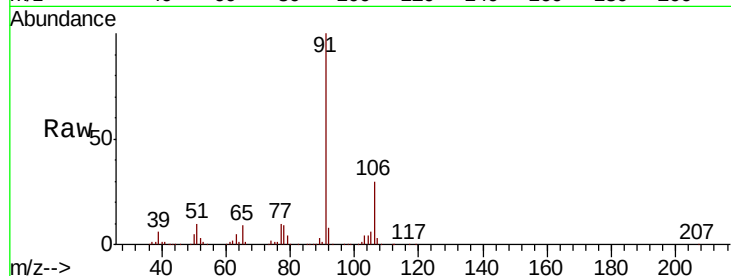
VSTD00513

Tot Ion: 91 Resp: 437092

Ion Ratio Lower Upper

91 100

106 30.3 20.2 37.4



#53

m,p-Xylene

Concen: 4.702 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030947.D

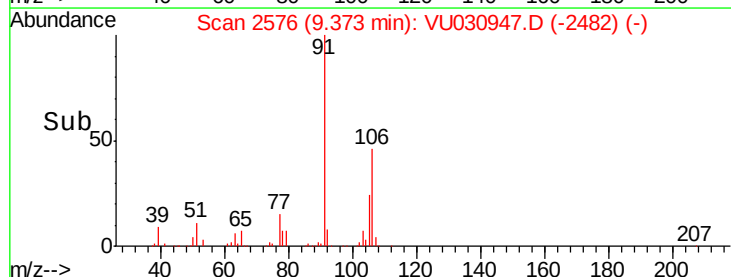
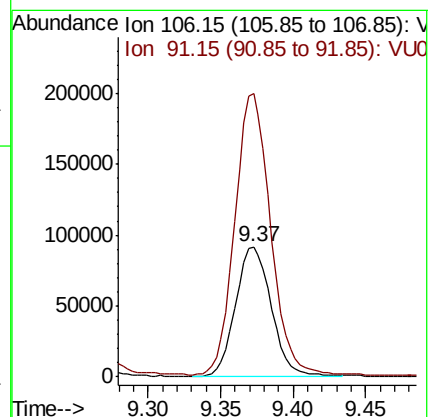
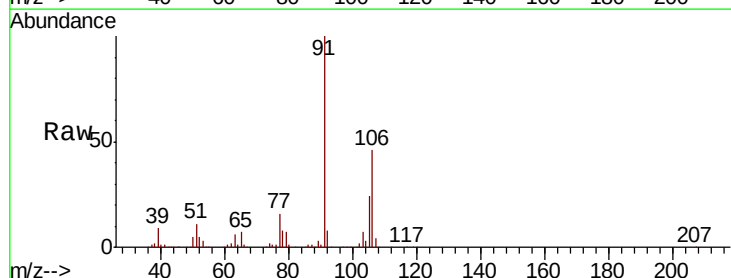
Acq: 09 Apr 2019 10:30

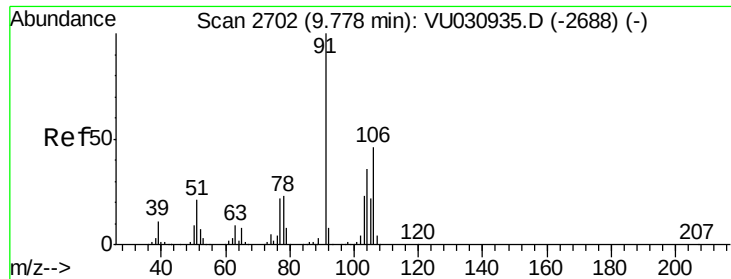
Tgt Ion: 106 Resp: 155470

Ion Ratio Lower Upper

106 100

91 217.9 147.4 273.8

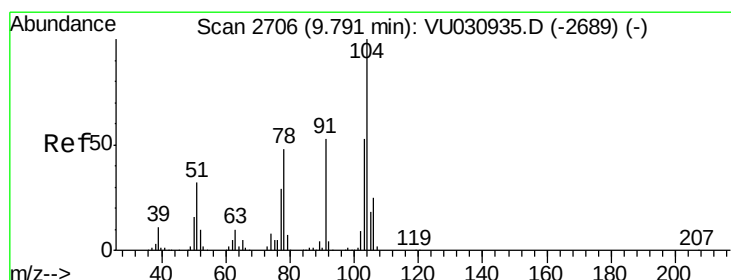
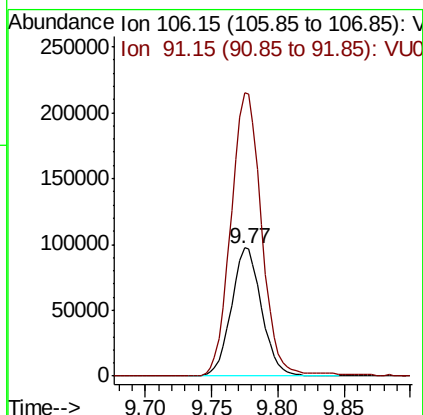
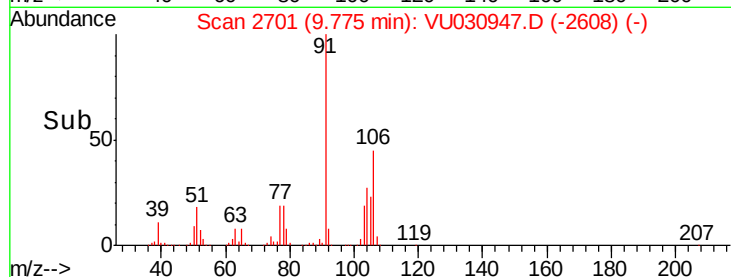
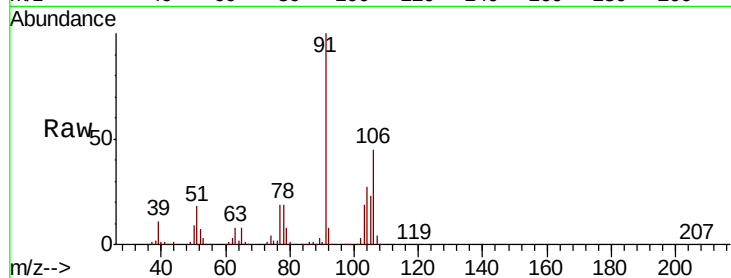




#54
o-Xylene
Concen: 4.775 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

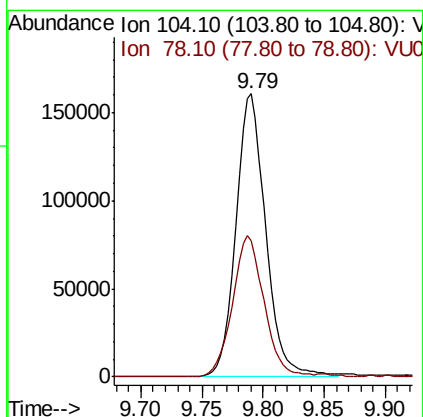
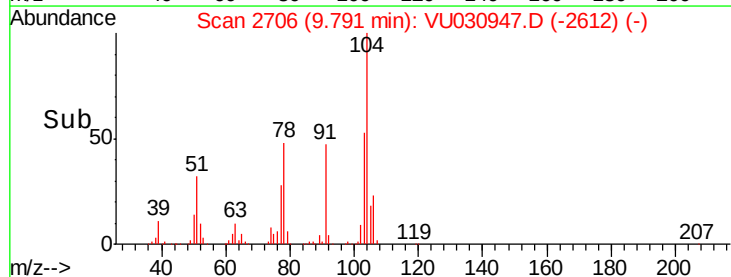
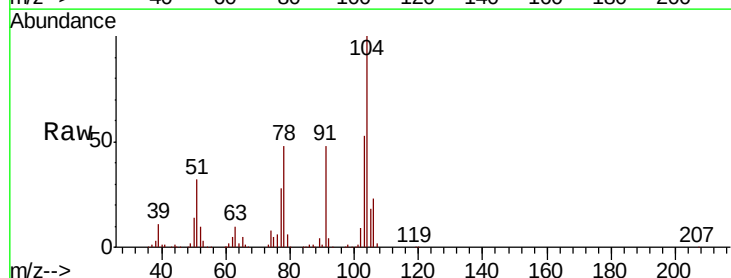
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

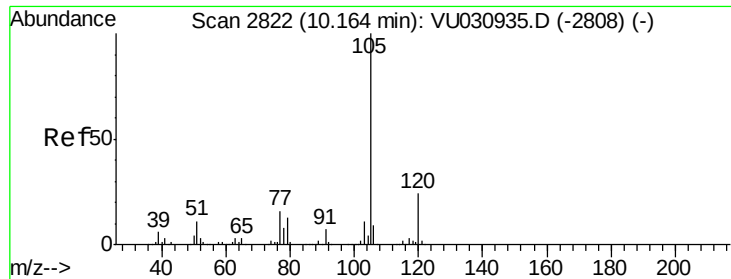
Tot Ion:106 Resp: 154836
Ion Ratio Lower Upper
106 100
91 220.5 161.3 299.7



#55
Styrene
Concen: 4.967 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU030947.D
Acq: 09 Apr 2019 10:30

Tgt Ion:104 Resp: 271698
Ion Ratio Lower Upper
104 100
78 47.9 34.4 63.8





#56

Isopropylbenzene

Concen: 4.772 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

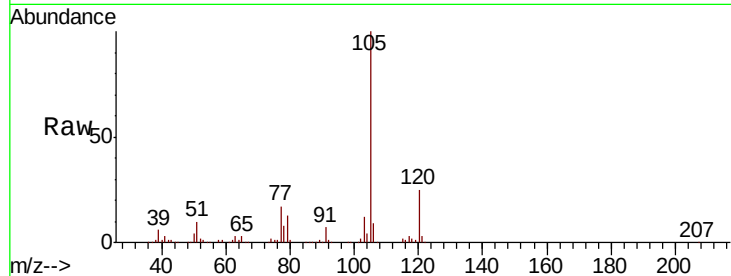
Tot Ion:105 Resp: 413374

Ion Ratio Lower Upper

105 100

120 24.7 20.5 30.7

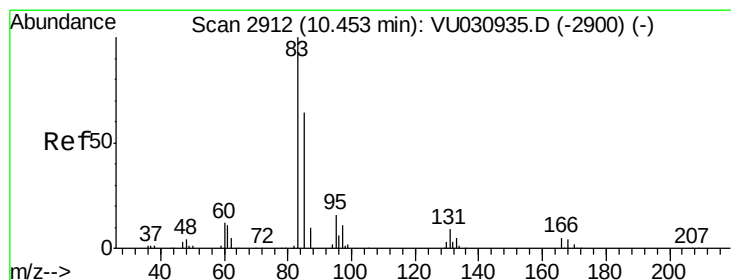
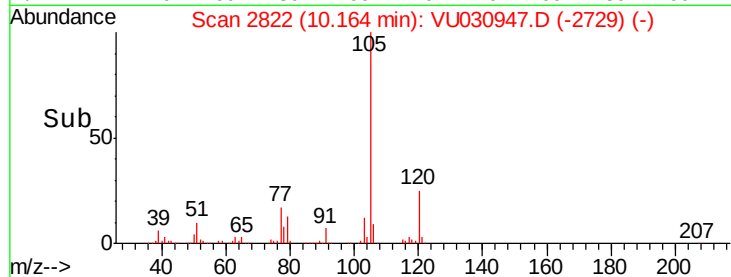
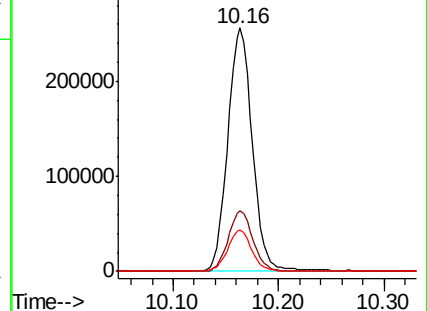
77 16.5 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.216 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

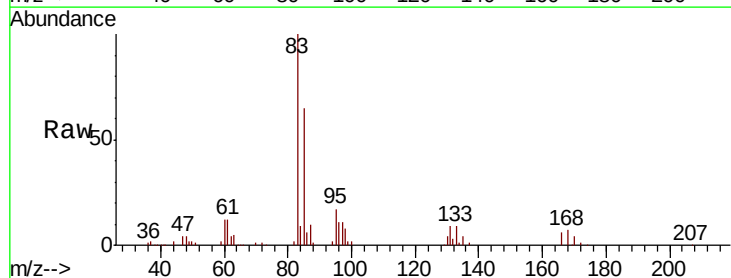
Tgt Ion: 83 Resp: 100698

Ion Ratio Lower Upper

83 100

85 64.7 44.4 82.5

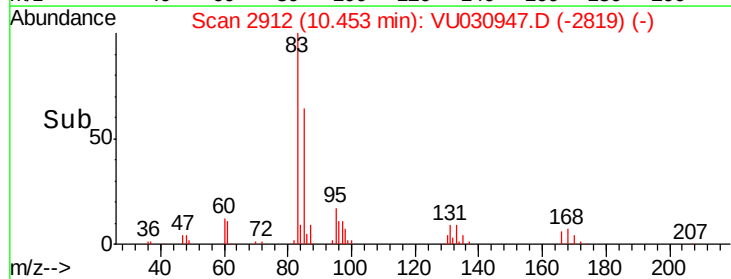
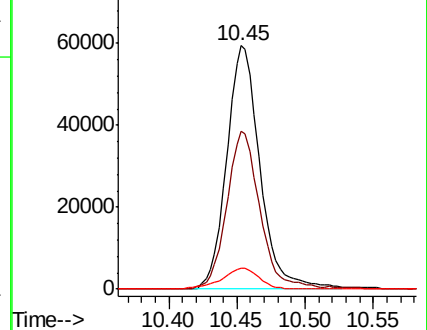
131 8.8 7.4 11.2

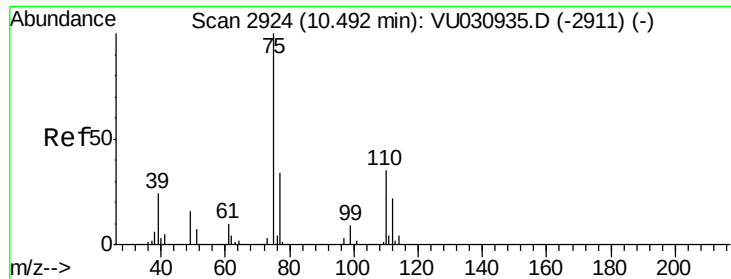


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.343 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

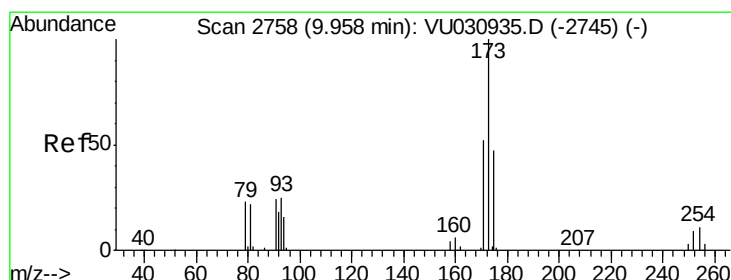
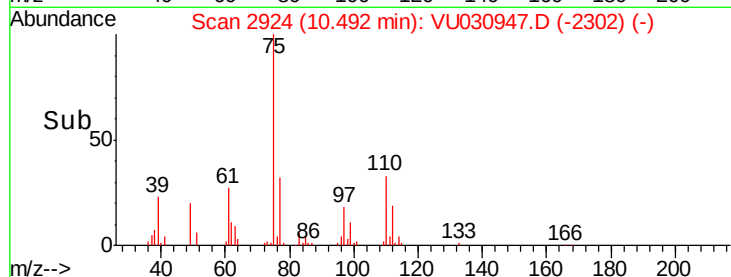
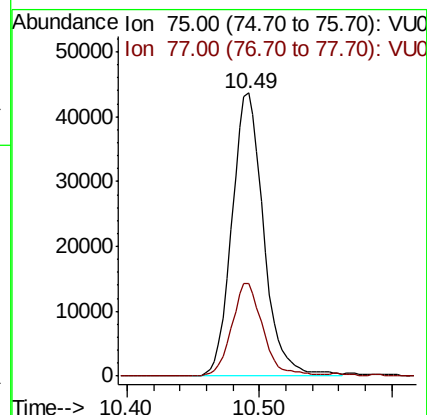
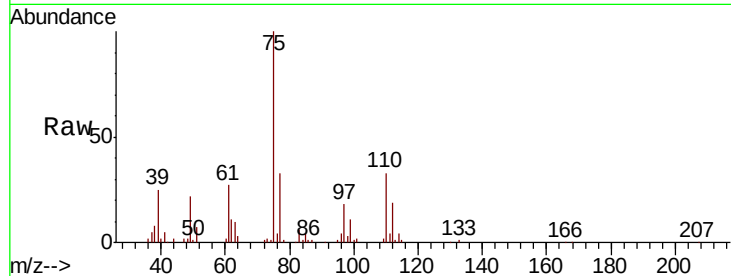
VSTD00513

Tot Ion: 75 Resp: 72707

Ion Ratio Lower Upper

75 100

77 32.2 25.6 38.4



#61

Bromoform

Concen: 5.302 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

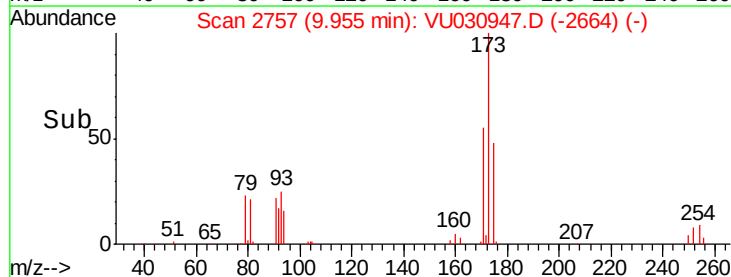
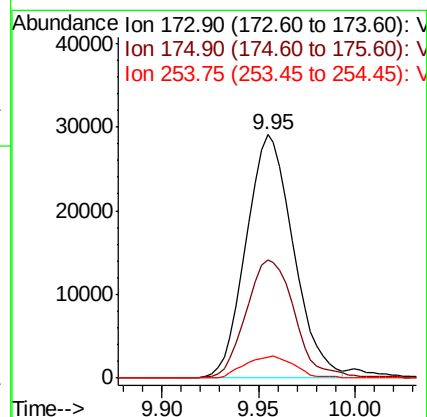
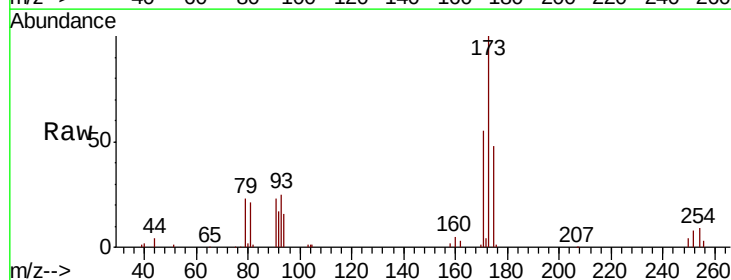
Tgt Ion: 173 Resp: 49479

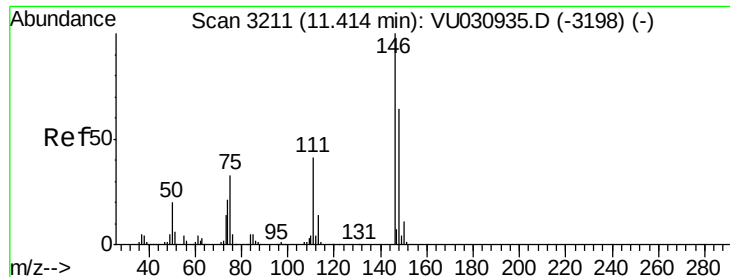
Ion Ratio Lower Upper

173 100

175 50.1 38.6 58.0

254 9.5 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 4.621 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

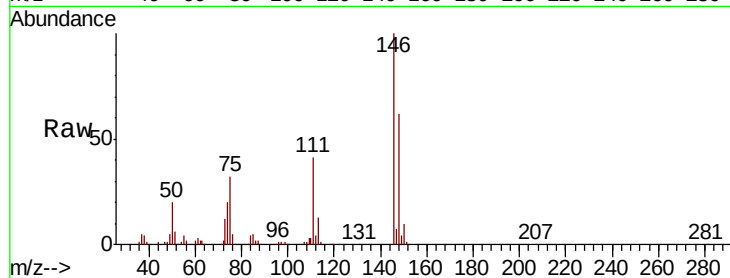
Tot Ion:146 Resp: 179697

Ion Ratio Lower Upper

146 100

111 41.4 28.9 53.7

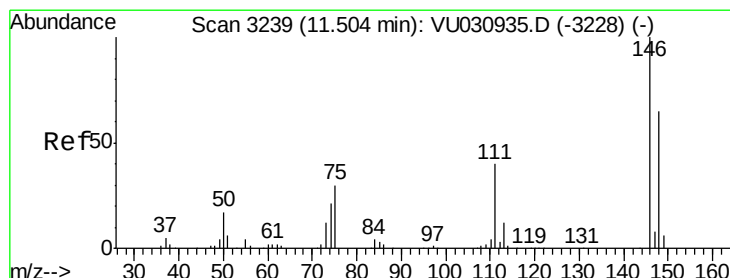
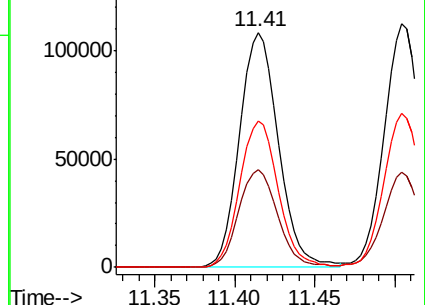
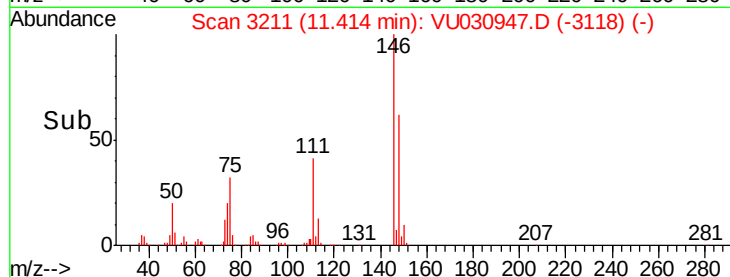
148 62.4 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.476 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

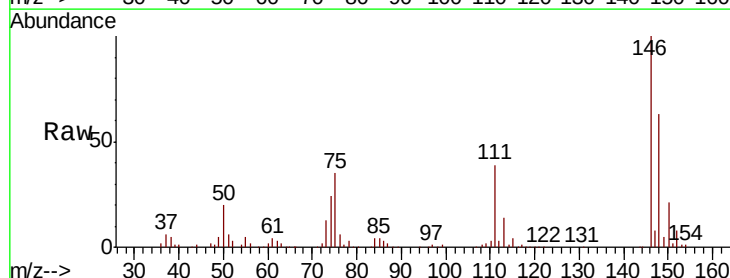
Tgt Ion:146 Resp: 182466

Ion Ratio Lower Upper

146 100

111 39.3 27.9 51.9

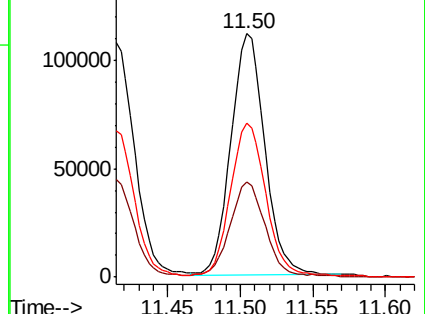
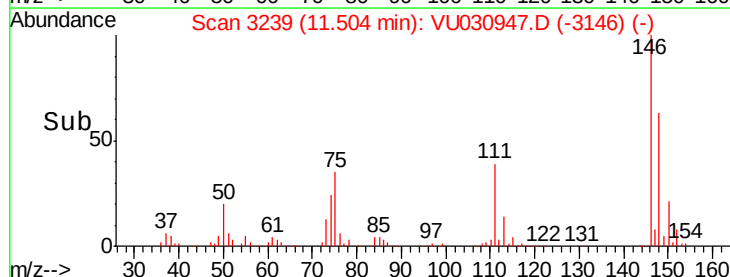
148 63.0 45.4 84.4

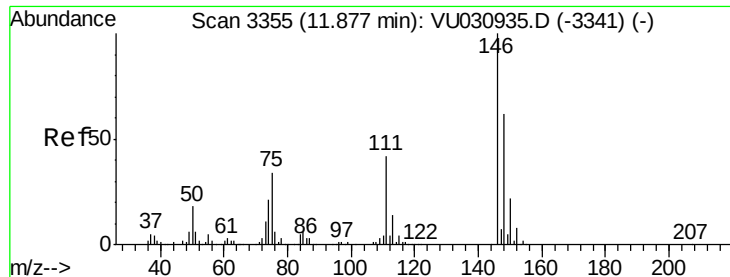


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.609 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

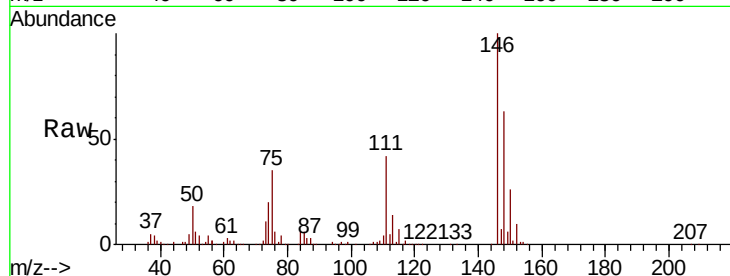
Tot Ion:146 Resp: 174383

Ion Ratio Lower Upper

146 100

111 41.6 37.1 55.7

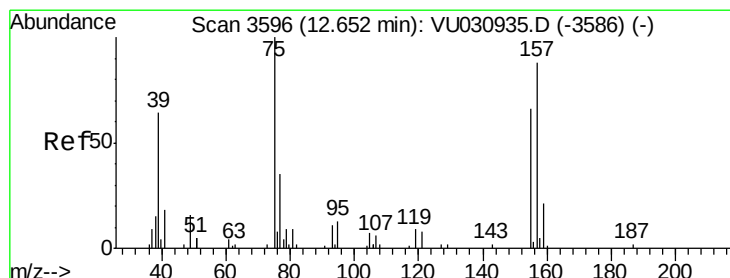
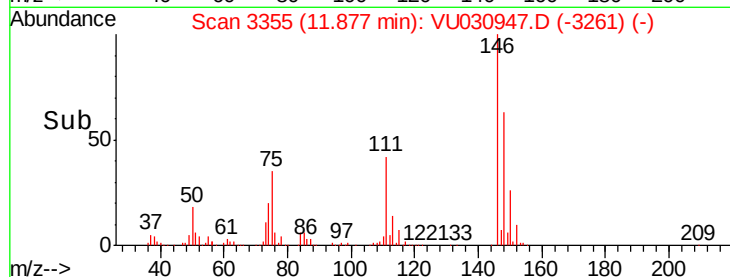
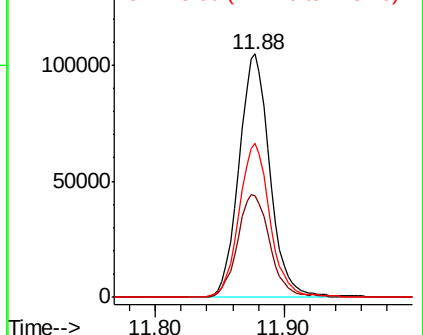
148 63.0 51.8 77.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.231 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

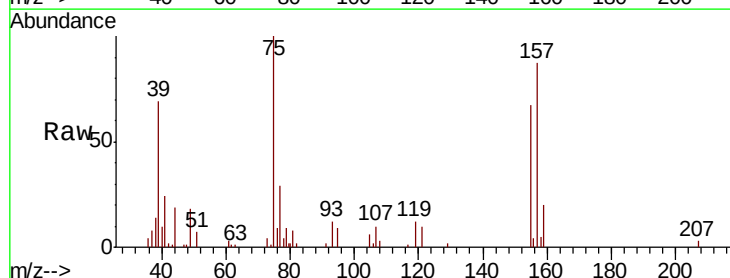
Tgt Ion: 75 Resp: 15315

Ion Ratio Lower Upper

75 100

155 67.2 57.7 86.5

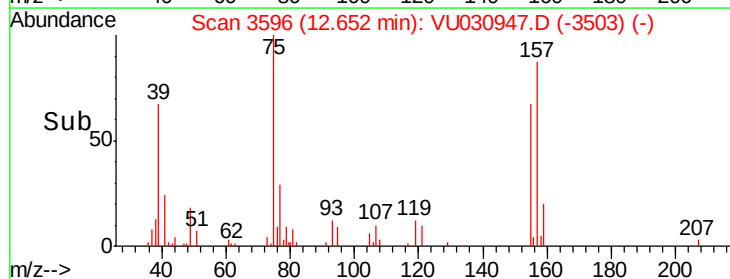
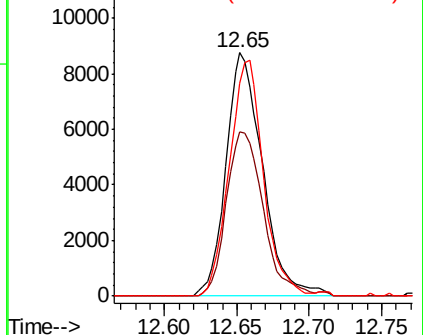
157 87.3 76.9 115.3

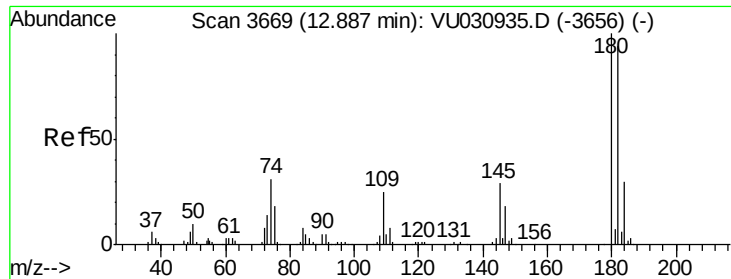


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

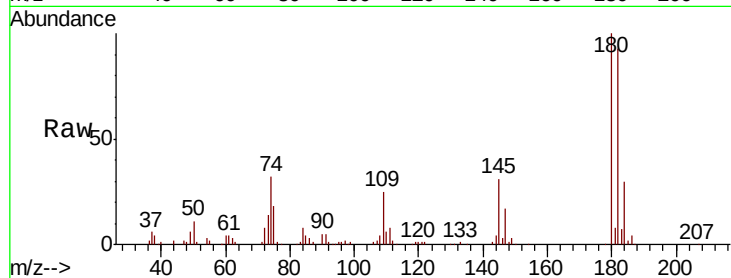




#67
 1,3,5-Trichlorobenzene
 Concen: 4.675 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.2	114.2
184	30.0	24.2	36.2
145	30.4	24.1	36.1



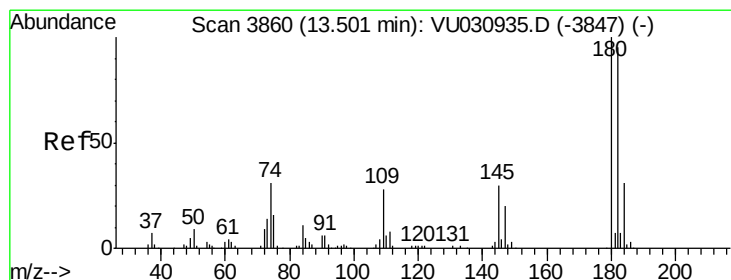
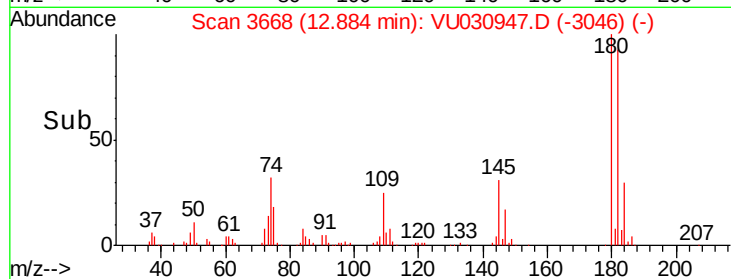
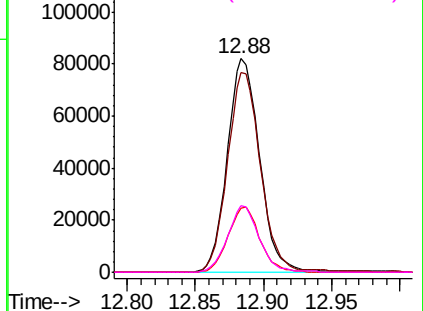
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

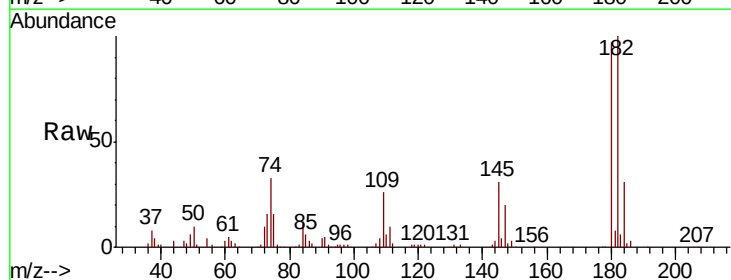
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.509 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030947.D
 Acq: 09 Apr 2019 10:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	74.6	111.8
145	29.7	23.6	35.4

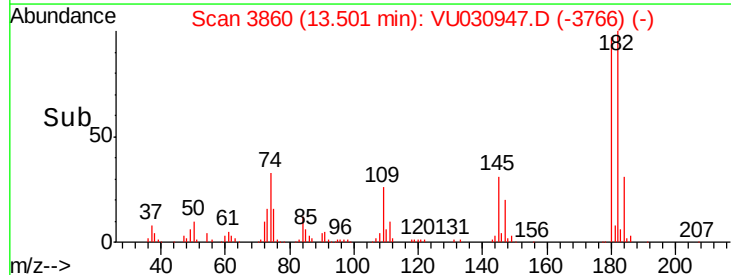
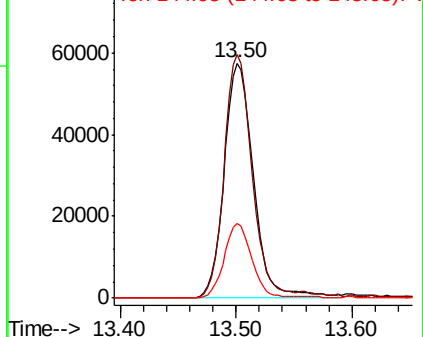


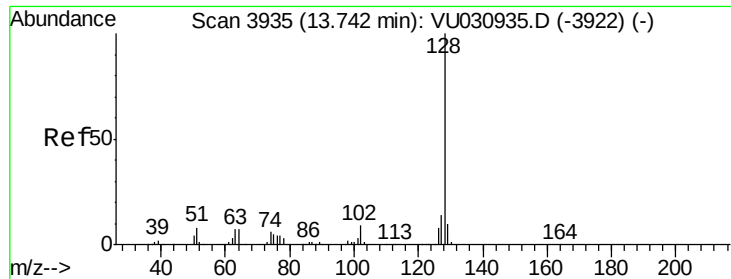
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.294 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

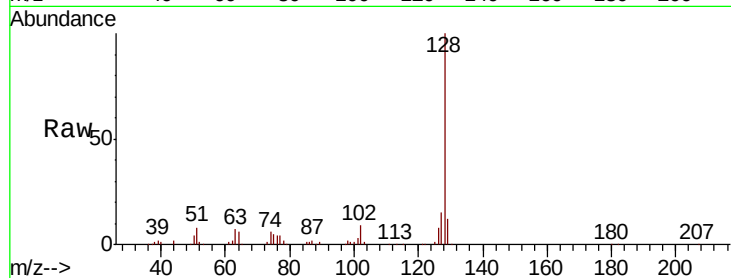
Tot Ion:128 Resp: 154513

Ion Ratio Lower Upper

128 100

129 11.1 8.3 12.5

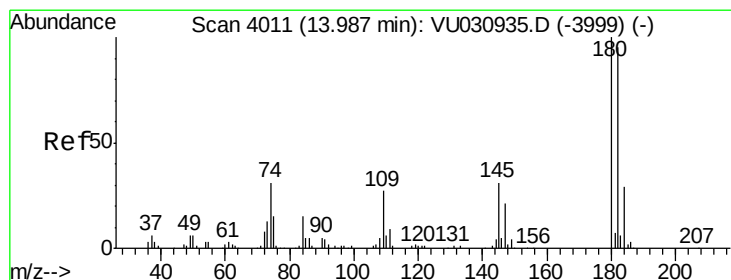
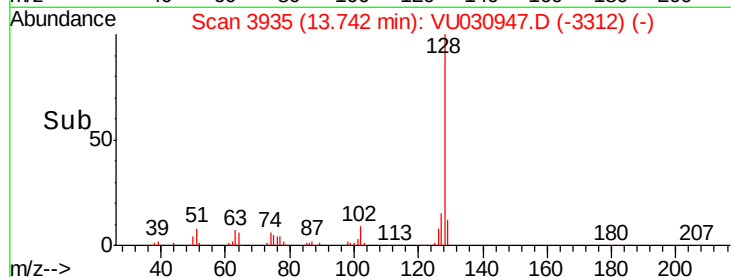
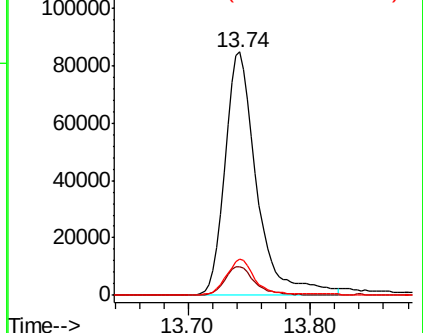
127 13.4 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.047 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030947.D

Acq: 09 Apr 2019 10:30

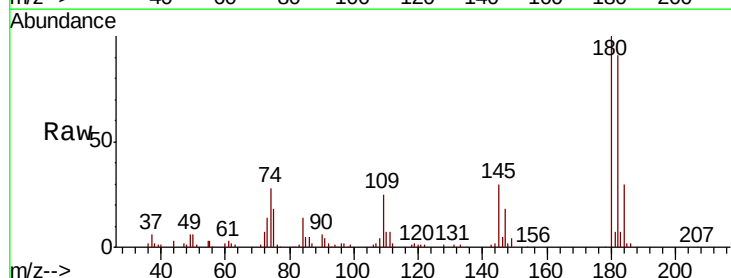
Tgt Ion:180 Resp: 105390

Ion Ratio Lower Upper

180 100

182 89.9 76.8 115.2

145 30.1 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

